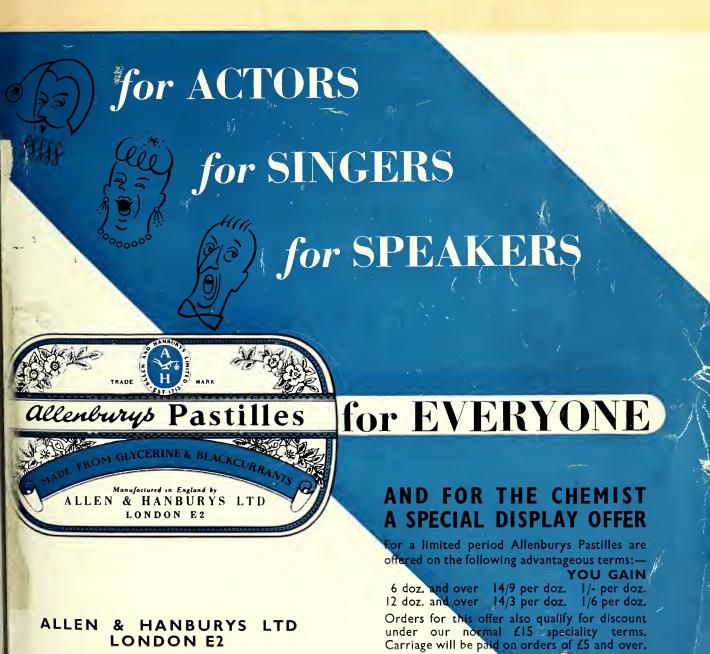
# The CHEMIST AND DRUGGIST

For Retailer, Wholesaler and Manufacturer

SEPTEMBER 1 1956



LONDON E2

BONUS TERMS
operative from
SEPT 3rd-NOV 30th

In response to repeated TRADE DEMANDS

**Potters** 

announce their NEW range of

PASTILLES

THROUGH
WHOLESALERS
ONLY!



GEE'S LINCTUS B.P.G.

GLYCERIN of THYMOL B.P.C.

GLÝCERÍN and BLAGKGURRANT

GLYGERIN, LEMON and HONEY

PURCHASE TAX FREE

RETAIL PRICE

THESE ARE ALL
WELL ESTABLISHED
TOP-SELLING
LINES

This additional range of pastilles comprises four carefully chosen lines and it is possible to offer them at a highly competitive price. All the lines are crystallised and conform to a high pharmaceutical standard. They are packed in high gloss enamelled tins, each of a different colour, but bearing a uniform design for easy recognition. The combination of low price and high quality should guarantee top sales for these established lines.

On minimum parcels of 72 tins, you will only be charged for 66 tins and pro rata for larger quantities.

# **BONUS TERMS**

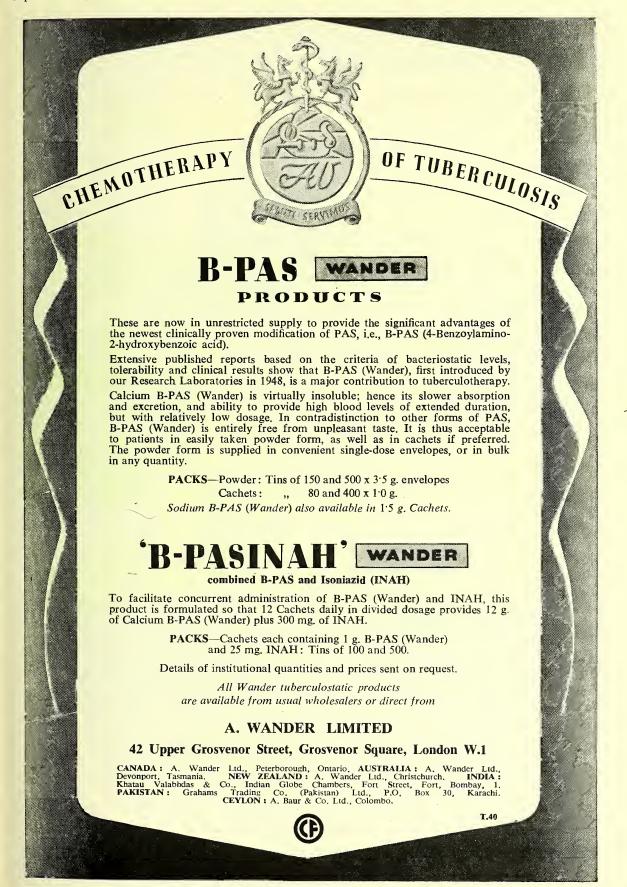
are available on

MINIMUM QUANTITIES of

6 DOZEN TINS OF ANY VARIETY OR ASSORTMENT

One tin in every dozen is FREE!

POTTER & CLARKE LTD River Road · Barking · Essex · Tel: RIPpleway 3041



# AMINOPHYLLINE ASPIRIN BROMIDES BEECHWOOD CREOSOTE BENZOATES BARBITURATES LITHIUM CARBONATE P.A.S. 'RHODIA'

SPOT DELIVERY & ON CONTRACT

DISTRIBUTORS:

R. W. GREEFF & CO., LTD.

HEAD OFFICE

GARRARD HOUSE - 31/45, GRESHAM STREET, LONDON, E.C.2 MONarch 1066 (12 Lines) Wires: Greeff, Cent. London

Telex 2-2590

and at
THE ROYAL EXCHANGE, MANCHESTER
Blackfriars 9407-8 Wires: Greeff, Manchester



buys you this latest GROSS CONTROLLER

Its a miracle machine

especially for those discerning people interested in keeping up to date records to prevent expensive errors.

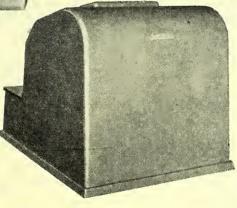
t's a miracle of new design too—looks extra good with its new modern lines and functional keyboard. Just the machine for the man needing automatic efficiency with the new Controller look.

SAVES TIME

INCREASES EFFICIENCY GIVES VITAL STATISTICS LOOKS EXTRA GOOD



allins 



Special Entry Record Strip Model £10 extra

Char.

Just take one more look at the cost of this new machine - it's automatic records, new design, new keyboard control, absolute and safe efficiency.

We can send you a lot more sound reasons and illustrations about this Premium priced new Gross Controller today. Fill in the coupon or just pin your letterhead to it —we'll send you

all details by return.

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s ahead in design

To the Controller Division of Gross Cash Registers Ltd., Hornsey, London, N.8. Please send details of your new Controller.

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ADDRESS .....

REGISTERS

Gross branches in all principal cities and business centres in Great Britain First class facilities for

# MANUFACTURE PACKING AND DISTRIBUTION

OF TABLETS, LIQUIDS, POWDERS



Tell us what you want — we'll do

THOMAS MARNS LTD.,

GREEN LANE. HOUNSLOW HOUNSLOW 5122

### **INCREASE YOUR PROFITS**

by stocking the range of Harley's Rat and Mouse killing preparations which more than ever before are being de-manded by the name almost everyone thinks of first.



RODINE WARFARIN

HARLEY LTD., RODINE WORKS, PERTH, SCOTLAND

Rodine

Red

Squill

THE ORIGINAL

WIDOW WELCH'S FEMALE PILLS

Over 10d BOX PROFIT by ordering I dozen 4/3 size. Bonus given on every dozen (13) It pays to push this size,

Established 1787 in the Reign of King George III

C. & G. KEARSLEY LTD. 71 DARTMOUTH ROAD, LONDON, S.E.23

ESTABLISHED 1793

The Infants' Medicine of 150 years' standing

For teething and digestive troubles

ROBERT BARKER 13 ALISTAIR STREET, MANCHESTER, 1



TRADE VERLOG MARK

SURGICAL ELASTIC HOSIERY

Belts, Trusses, Suspensory Bandages, etc. ATHLETIC SUPPORTS

Knee Caps, Anklets, Jockstraps THOS. GLOVER & SON, LTD., CARLTON, NOTTINGHAM Tel.: 58227 (2 lines). 'Grams: Verlog, Nottingham

Dispensing



# ORKS

Immediate delivery from RANKIN BROTHERS & SONS

(RANKIN PARTNERS, LTD.)

OWNERS OF THE FINEST CORK FORESTS IN PORTUGAL

139 Bermondsey St., London, S.E.I Telephone: HOP 0074

11d STOCKING (except Black)
4d. COLD WATER, CURTAIN
and Black Stocking Dyes

32/- gress Order Dyes and Shade Cards from our Agents
Gt. Britain: W. B. Cartwright Ltd., Rawdon, Leeds
N. Ireland: T. M. Mullan & Co., Ltd., 42 Visteria
Street, Belfast. Eire: May Roberts (Ireland) Ltd.,
Grand Canal Quay, Dublin, C.6

LABORATORY NATIVELLE LTD, presents:

A new GENERAL SEDATIVE with elective cardiac action

> Each tablet contains: Phenylethylbarbiturate of Quinidine: 0. 10 gm.

A new, crystalline salt of high purity, stable and with definite physical characteristics. Tube of 20 ... ... Retail price 10/21

Bottles of 100 (Dispensing Packs)

#### LABORATORY NATIVELLE LTD

74 White Lion Street, London, N.I

Other lines: NATIVELLE'S DIGITALINE—OUABAINE ARNAUD IODHEMA—NATIROSE

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ABC (and D) of health

Vitamins A B<sub>1</sub> C D<sub>2</sub>—the public knows these are vital to year-round health.

Some people build up resistance against winter ills with a course of 'Multivite' in the Autumn. Others wait until winter is upon them. But one fact remains—where they see 'Multivite' displayed, they buy.

# 'MULTIVITE'

TRADE MAR

		TRADE	RETAIL
Bottles of		2/4	3/6
Bottles of	5	14/6	21/9
Bottles of	1000 pellets	27/6	



THE BRITISH DRUG HOUSES LTD. LONDON N.I

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# To show them is to Sell them ...

... and to sell them is to make a regular customer! Here is a first-class product supported by attractive displays. Stronger, finer, long-lasting — "Will O'Wisp" Hair Nets, Slumber Nets, etc., sell on sight and repeat on quality.







From your Wholesaler. In case of difficulty write for nearest supplier:

SIMON, MAY & CO., LTD., NOTTINGHAM. Est. 1849

Fine QUALITY - plus forceful DISPLAY



Doctors prescribe

TANCOLIN the Tangerine flavoured Children's Cough Linctus that children really enjoy taking. Indicated for the treatment of the distressing and irritating cough associated with the Common Cold, Bronchitis and Catarrhal conditions of the respiratory tract.

TANCOLIN combines the advantages of simplicity of dose, ease of administration, with marked therapeutic value. The risk of frustrated, ineffective treatment is eliminated.



# Chemists dispense

TANCOLIN, formulated for the treatment of the recurrent conditions indicated above, is prepared specifically for children of all ages being extremely palatable and well tolerated. TANCOLIN provides effective treatment since regular and accurate dose schedules are easily achieved.

TANCOLIN represents a considerable advance in the field of children's medicine. Economically priced, it fully merits your considered approval for counter sale also.

Children take...

FREELY PRESCRIBABLE ON E. C.10 (Category 3/4) 3 oz.—plastic capped bottles individually cartoned to protect Vitamin 'C' content. 18/4 doz. (plus 30 % P.T.)

RETAIL PRICE 2/9

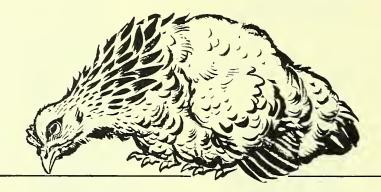


CHILDREN'S COUGH LINCTUS

A MAW'S ETHICAL-NOT ADVERTISED TO THE PUBLIC

S Maw Son and Sons Limited · Barnet · England

# POULTRY DISEASES



For coccidiosis we gave you 'Sulphamezathine' 16%-a winner!

Now we present

# UREL

FOR FOWL TYPHOID AND B.W.D

A premix of Furazolidone, spectacularly successful in the treatment of both fowl typhoid and B.W.D. (Pullorum disease). 'Furella' will be high. Stock up now!

Salmonella infections are widespread and the demand from poultry-keepers for

'Furella' will be a seller!

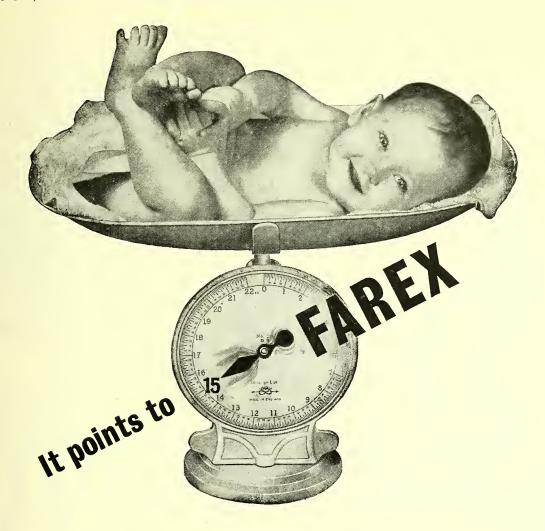
#### **PACKINGS**

4 oz. ENVELOPES 7/3d. (4 oz. is sufficient for 28 lb. of feed. The envelopes are packed in cartons of 6). 1 lb. TINS\_\_\_\_\_23/6d. 7 lb. TINS\_\_\_\_\_ The above list prices are subject to the usual discounts.

\* Showcards are available and 'Furella' will be advertised in National Poultry Journals.

IMPERIAL CHEMICAL (PHARMACEUTICALS) LIMITED, WILMSLOW, CHESHIRE A subsidiary company of Imperial Chemical Industries Limited Ph.652/T





# ...and you have another potential customer

For at 15 lb., or thereabouts, he's ready for the goodness of Farex—every day.

And he will go *on* taking Farex—right up to school days—when mother sees the good it does him.

From then onwards—in sickness and health—he's a part of the ever-growing Farex family . . . one of your family of regular customers.

# FAREX 3-CEREAL FOOD in 10 oz. cartons





# THE NATURAL WAY TO KEEP SALES HEALTHY TOO

Starting October, a new advertising campaign punches home sales for SevenSeaS Cod Liver Oil. Bold, 'cannot-be-missed' advertisements in the National Dailies and Sunday Papers, in the National Weeklies and Women's Magazines, will tell the public everywhere that 'SevenSeaS Cod Liver Oil Builds Health Naturally'. This is the main weight of the attack. In support there are special window displays.

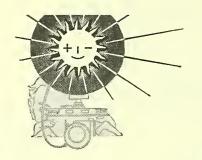
Seven Seas PURE COD LIVER OIL

IN BOTTLES

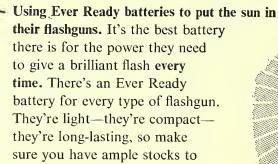
BRITISH COD LIVER OILS (HULL & GRIMSBY) LTD., ST. ANDREW'S DOCK, HULL



IN THE NEW CONTAINER



# Everybody's doing it!



satisfy your customers.



l·5 volts Size 1३"x2 💤"

U2



22.5 volts Size | 1 16 "x 5 "x 2"

B122



G**77**A



HEAD OFFICE & WORKS: MANSFIELD ROAD, DERBY. Tel: 40671 (8 lines)
BRANCH WAREHOUSE: GROSVENOR ST., ASHTON under LYNE. Tel: 2816 (3 lines)

# MONSANTO CHEMICALS LIMITED announce

the following prices for Aspirin and Salicylates effective 1st September, 1956

### ACETYL SALICYLIC ACID B.P.

Quantities	Prices Delivered	
	per lb.	per kilo
10 tons or 10,000 kg.	4s. 4d.	9s. 7d.
5 tons or 5,000 kg.	4s. 4½d.	9s. 8d.
1 ton or 1,000 kg.	4s. 5d.	9s. 9d.
10 cwts. or 500 kg.	4s. 6d.	9s. 11½d.
5 cwts. or 250 kg.	4s. 7d.	10s. 1½d.
1 cwt. or 50 kg.	4s. 9d.	10s. 6d.

# SODIUM SALICYLATE B.P. and SALICYLIC ACID B.P.

Quantities	Prices Delivered			
	Sodium Salicylate B.P.		Salicylic A	Acid B.P.
	per lb.	per kilo	per lb.	per kilo
5 tons or 5,000 kg.	3s. 5½d.	7s. $7\frac{1}{2}$ d.	2s. 10d.	6s. 3d.
1 ton or 1,000 kg.	3s. 7d.	7s. 11d.	2s. 11½d.	6s. 6½d.
5 cwts. or 250 kg.	3s. 8d.	8s. 1d.	3s. 0½d.	6s. 8½d.
1 cwt. or 50 kg.	3s. 10d.	8s. 5½d.	3s. 2½d.	7s. 1d.

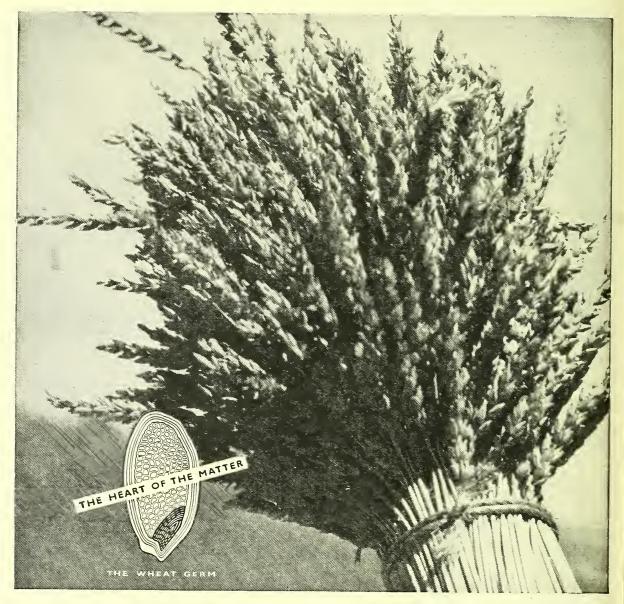
MONSANTO CHEMICALS LIMITED

Monsanto House, Victoria Street,
London, S.W.1

and at Royal Exchange, Manchester, 2.



In association with: Monsanto Chemical Company, St. Louis, U.S.A. Monsanto Canada Limited, Montreal. Monsanto Chemicals (Australia) Limited, Melbourne. Monsanto Chemicals of India Private Ltd., Bombay Representatives in the world's principal cities.





Stabilized Wheat Germ
PLAIN AND CHOCOLATE-FLAVOURED

Exceptionally rich in B complex vitamins, protein and iron, BEMAX is a natural dietary supplement of wide application for patients of all ages.

	Dozen	Quantity Terms
1/9 carton at	16/6 28/6 52/6	16/- dozen
3/- 11 11	28/6	27/3 ,,
5/6 ,, ,,	52/6	50/- ,.

Quantity terms available on minimum orders of 3 dozen  $\times$  3/- or the equivalent in the 1/9 and 5/6 sizes (1  $\times$  3/-  $\times$  2  $\times$  1/9 =  $\frac{1}{2}$   $\times$  5/6).

# PREGNAVITE during pregnancy

to meet the special nutritional demands of pregnancy, adequate vitaminmineral intake is ensured by routine treatment with PREGNAVITE.

Prices 60 120 1,000 RETAIL 4/I 7/4 48/-

AIL CHEMISTS

1 33 4 per doz.

4 59/10,, ,,

/- 32 9 each



# VITAVEL SYRUP for the child

no lack of co-operation when vitamin supplementation has the delicious flavour of VITAVEL SYRUP.  $(A,\,B_1,\,C)$  and  $(A,\,B_2,\,C)$  and  $(A,\,B_3,\,C)$  and (A,

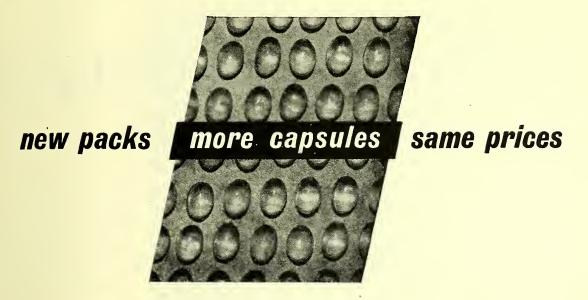
PACK 6 fl. ozs. 3/9 2/6 40 fl. ozs. 24/- 16/-





VITAMINS LIMITED

(DEPT. AA.5), UPPER MALL, LONDON, W.6



better value for money with

# CROOKES halibut oil capsules

Now 30 for 2/6 · 60 for 4/6 · 120 for 8/6

The new economical packs are featuring prominently in Crookes biggest-ever publicity campaign on television and in the national dailies, popular weeklies and leading women's magazines. Attractive show material and window displays are available. You are bound to profit from such tremendous support for your across-the-counter sales. So check your stocks now. We will replace old packs of 25 and 100 with the new 30 and 120 packs on a pack for pack basis, in good time for you to meet the extra demand.

N.B. Bonus on vials of Oil and Infants Emulsion is now discontinued.

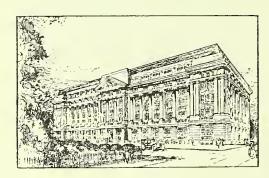
Bonus Terms have already been mailed to you

# CROOKES HALIBUT OIL CAPSULES



# THE 1956

# NATIONAL PHARMACY EXHIBITION



# VICTORIA HALLS BLOOMSBURY SQUARE, LONDON, W.C.1

Two minutes from Holborn Tube Station

# September 10th - 13th

The Exhibition will be opened at 11.30 a.m. on Monday, September 10th,
by Mr. Allen Aldington, Chairman of the National Pharmaceutical Union Executive Committee

# Leading Manufacturers will show

**Hospital Apparatus** 

Scientific Instruments for the Laboratory, Research, etc.

**Technical and Trade Publications** 

Medical Specialties and Pharmaceuticals

Surgical Dressings, Apparatus, etc.

Cosmetics, Perfumery and Toilet Articles

Fittings and Apparatus for Dispensary and Pharmacy

**Shop Fittings** 

Sales Aids

Soft Drinks

Chemists' Sundries, etc., etc.



Favoured Treatment

THE little luxuries extended to ailing children do not often include an ingratiating medicine. There is a need for palatable and harmless forms of the drugs given to young patients. Aspirin, one of the commonest, is, for instance, one of the most unpleasant, and can be harmful to the delicate gastric mucosa.

On the other hand, most children will readily take aspirin in the form of *Junior Paynocil*. These tablets are really pleasant to take; they disperse instantly on the tongue without water, and minimise the risk of gastric irritation due to aspirin.



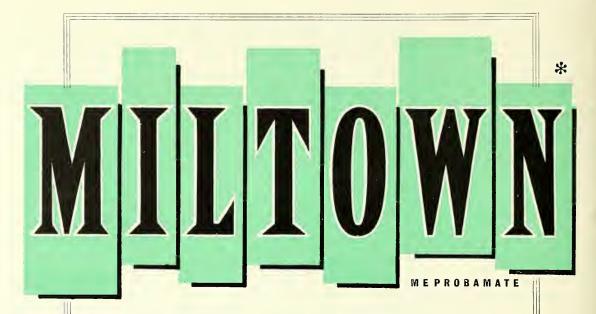
Junior Paynocil tablets each contain  $2\frac{1}{2}$  grains of aspirin and  $1\frac{1}{4}$  grains of glycine. Besides speeding disintegration and eliminating the unpleasant aspirin flavour, glycine confers on each aspirin particle a lubricant, demulcent and protective barrier.

Packages

Cartons of 20 in sealed foil strips.

Tax free dispensing packs of 240. Basic N.H.S. cost: 15/-.

C. L. BENCARD LTD., PARK ROYAL, LONDON N.W. 10



# The most remarkable tranquillizer yet discovered

Now made available in Great Britain by Lederle

MILTOWN, 2 methyl-2-n-propyl-1, 3-propanediol dicarbamate, is a new, safe, powerful tranquillizer that has a selective action in anxiety and tension states. It possesses valuable sedative, hypnotic and muscle-relaxing properties and has the following important advantages:—

It is non-toxic and has negligible side effects

Relaxes the patient for natural sleep without narcosis

Is a muscle relaxant in spasm, pain and stiffness

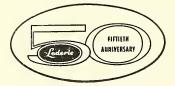
Has proved effective where other tranquillizers have failed

Is easily tolerated

Fully active by mouth ... relieves stress ... stabilises the emotions

In tablets of 400 mg. for oral use. Bottles of 50.

\* Trade-mark



# LEDERLE LABORATORIES DIVISION

Cyanamid PRODUCTS LTD. LONDON, W.C.2

# ST. JAMES' BALM

# The ONE Ointment for the MANY Skin Troubles





ST. JAMES' BALM is the proven remedy for common skin troubles—and for some quite uncommon ones too! Because it contains the broth filtrates of the microbes causing most skin infections, treatment is successful in an exceptional number of cases. ST. JAMES' BALM is therefore the ideal general-purpose ointment for family use.

On merit alone, ST. JAMES' BALM is in steadily increasing demand. You may stock and recommend it with absolute confidence.

MEDICO-BIOLOGICAL LABORATORIES LTD.

CARGREEN ROAD, SOUTH NORWOOD, LONDON, S.E.25



by Ingram's

# The RESTWELL Junior

Hot Water Bottle

Because of their superior quality, finish and value, Ingram's Hot Water Bottles offer unrivalled value. This latest addition to the Ingram's range - the RESTWELL JUNIOR is standard size — Junior in description only. A companion bottle to the popular RESTWELL it embodies the special finned designa safety-first feature that helps to spread the heat quicker and retain it longer. Available in green, blue, pink or orange, and retailing at the modest price of 7/6. Definitely another Ingram's winner! Order your stocks now.

J. G. INGRAM & SON LTD., Hackney Wick, London, E.9

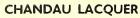
# STOCK THESE CHANDAU TOP SELLERS

Nationally advertised to ensure quick turnover.

### CHANDAU SOFT CURL SET

The latest CHANDAU line is not a lacquer. Spray containers available in 3 pastel shades and packed 6 to Counter Display carton with Showcard.

Retail 5/6 per spray container. Trade 26/8 per doz. plus P/Tax.



Now contains LANOLIN and an exquisite FRENCH PERFUME. Spray containers available in 4 pastel shades and packed 12 to carton with Showcard.

Retail 4/9 per spray container. Trade 22/- per doz. plus P/Tax. Refills 3/- each retail. Trade 14/4 per doz. plus P/Tax. Extra large size 7/6 retail. Trade 35/- per doz. plus P/Tax.



Packed 6 to Display Box with 6 plastic egg-cups. Retail 2/9 each. Trade 18/- per doz. plus P/Tax. Sachets (24 to Display Box). Retail 7½d. each. Trade 4/- per doz. plus P/Tax. Ask for details of the full range of CHANDAU products.

Order Today!





Telephone: ARChway 2674



Each capsule contains:-

d-Amphetamine Sulphate	5	mg
	1670	
Vitamin D	167	I.U
Thiamme Mononitrate (B <sub>1</sub> )	I	mg
Ribofiavine (B <sub>2</sub> )	t	mg
Niacinamide	20	mg
Calcium Pantothenate	0.34	mg
Pyridoxine HCl (B <sub>6</sub> )	0.34	mg
Folic Acid	0.34	mg
Ascorbic Acid (C)	20	mg
Methylcellulose	200	mg
Iron (FeSO <sub>4</sub> exsice.)	3.34	mg
Calcium (CaHPO <sub>4</sub> )	140	mg
Phosphorus (CaHPO <sub>4</sub> )	108	mg

Iodine (KI)	0.5	mg
Fluorine (CaF <sub>2</sub> )	1,0	mg.
Copper (CuO)	1	mg
Potassium (K <sub>2</sub> SO <sub>4</sub> )	5	mg
Manganese (MnO <sub>2</sub> )	1	mg
Zinc (ZnO)	0.5	mg.
Magnesium (MgO)	1	mg.
Boron (Na <sub>2</sub> B <sub>4</sub> O <sub>7</sub> )	0.1	
Vitamin B <sub>12</sub> as present in o		
extractives from streptom	yces fern	nen-
tation.	0.34 mc	gm.

Bottles of 100 capsules.

# STRESSCAPS<sup>\*</sup>

Stress Formula Multivitamins

STRESSCAPS, now being promoted to doctors, provide in a single capsule, a supplement of vitamins for hastening recovery and body repair during extraordinary physiological stress by shock, injury, burns, surgery or severe infection.

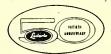
Each capsule contains:—

 $\begin{array}{ccc} Thiamine \ Mononitrate \ (B_1) & \text{10 mg} \\ Riboflavine \ (B_2) & \text{10 mg} \\ Niacinamide & \text{100 mg} \end{array}$ 

Ascorbic Acid (C) Folic Acid 300 mg. 5 mg.

Bottles of 30 capsules.

\*Trade-mark



LEDERLE LABORATORIES DIVISION

Cyanamid PRODUCTS LTD. LONDON, W.C.2

IRON IN AN EASILY **ASSIMILATED** FORM

# Ferrous tiuconate

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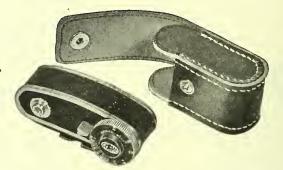
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Circulation Insertions

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4,694,042 2 Oct. I9<sup>th</sup> & Nov.
2,073,766 2 Oct. 26<sup>th</sup> & Nov.

I,455,324 2 Nov. 2<sup>nd</sup> & Dec.
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# THE CHEMIST AND DRUGGIST

ESTABLISHED 1859

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Official organ of the Pharmaceutical Society of Ireland and the Pharmaceutical Society of Northern Ireland

Volume 166

September 1, 1956

No. 3993

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# CHEMIST AND DRUGGIST

Volume 166

SEPTEMBER 1, 1956

No. 3993

# New Cycle of Full Pricing

# THREE THREE-MONTH PERIODS

THE next complete cycle of doctor-sorting of National Health Service prescriptions, their full pricing, and subsequent preparation of a comprehensive report on each doctor's prescribing, commences with

September prescriptions.

All chemist contractors in all the contiguous Executive Council areas in one-third of England and Wales are being asked to submit their bundles doctor-sorted for three consecutive months. That request will be repeated for the contractors in the remaining two regions so that the cycle is completed within twelve months commencing with the September 1956 bundles. Executive Councils will receive a prescription data report for prescriptions written in one of the three months, but for each doctor, the report will cover prescriptions found in one bundle from each chemist within the whole of the fully priced region. The arrangements at present in force for chemist contractors who in recent months have dispensed an average not exceeding 500 prescriptions a month are continuing. The second and third three-month periods will be February to April and May to July, 1957.

# Pertussis Vaccine

REPORT ON FIELD TRIALS

A REPORT to the whooping-cough immunisation committee of Medical Research Council on a series of investigations into the protective of investigations into the protective effect of whooping cough vaccines, is published in the *British Medical Journal* dated August 25. Two investigations were carried out, one between 1948 and 1951, using British vaccines, and one between 1951 and 1954, using British and American vaccines. The British and American vaccines. The trials were begun in conjunction with laboratory studies, to determine whether the prophylactic value of vaccines in children could be assessed by a laboratory test, and the second was planned also to determine whether British manufacturers could produce good vaccines by methods similar to those of the Michigan Department of Health, and whether a vaccine prepared from culture in liquid medium was as effective as one from culture on solid medium. In the two series of trials, fourteen pertussis vaccines were tested. Those used in the first series proved to be poor, but those in the second series gave substantial protec-tion which was maintained for at least two-and-a-half to three years after vac-cination. Concurrently with the field trials, the vaccines were tested in the laboratory for their ability to protect mice against intracerebral pertussis infection, and some of them for their ability to produce specific agglutinin in mice and in children. A comparison between field and laboratory results showed some correlation between the potency of vaccines in protecting children, and their ability to protect mice against intracerebral infection. There was also evidence of a correlation between protection in children and the ability to produce agglutinin in both mice and children. The report concludes that in future only those pertussis vaccines which have been shown by the intracerebral mouse-protection test to have an adequate potency in relation to the British standard pertus-

ALL GAELIC PHAR-MACY: Pharmacist visitors to the British Pharmaceutical Conference meeting in Dublin next week, who are in the vicinity of the Four Courts, alongside the Liffey, should make a point of walking up the Church Street side of the Courts where they will find the sole all Gaelic pharmacy in Dublin. It is owned and run by Mr. Sean A. Campbell, who is seen standing outside his pharmacy in the letters picture. The B.C.C.E. after after his name are the equiva-lent of M.P.S.I. (member of the Pharmaceutical Society of Ireland). Ceimiceoir coguisioch-ta is the Gaelic form of pharmaceutical chemist. The title on the sign Coguslann na gCeitre gCuirt means Pharmacy of the Four Courts since the pharmacy is directly opposite and the nearest pharmacy to the Courts, All the labels, etc., used in the phar-macy are in Gaelic. A typical label is headed an Meascan sis vaccine should be issued for use in children.

# **Examination Results**

LONDON B.PHARM.

THE following were the successful candidates in the 1956 B.Pharm (internal) examination of London University: First class honours: Bennett, Gillian E.; Blaber, Leslie C.; Lewis, Colin J.; Smith, Robert L.; Williams, Valerie. Second class honours: Bailey, David J. W. Herbert; Balon, Anthony D. J.; Bathirunathan, Nadaraja; Booth, Howard W.; Clinch, Shirley P.; Cort, Margaret A.; Dench, Warwick; Fenn, Sheila A. C.; Harcourt, David N.; Hicks, Roger; Hooper, Malcolm; Jarvis, Beryl T.; Jones, Alexander M.; Kaiser, Arnold B.; Langer, Esther L.; Lesser, Ephraim; McGreal, Laurence A. J.; Mills, June E.; Prout, Dorothy M.; Smith, Douglas B.; Tibbles, John N. S.; Waller, John A. C.; Weinstock, Marta. Pass: Allanson, Bridget M.; Aschkenasy, Basile H.; Barrow, Barbara J.; Busse, Michael J.; Herbert, Philip J.; Honig-



(the Mixture), with underneath Craith an Buideal (Shake the Bottle), Mr. Campbell, who is a native of Strabane, co. Tyrone, first learned his Gaelic in Belfast, and opened his pharmacy on July 27, 1932. He has many Gaelic-speaking customers who ask to have their prescriptions labelled in the native tongue.

man, Judah L.; Kelley, Sheelagh A.; Ransom, Michael H.; Sindell, Kenneth man, Judah L.; Kelley, Sheelagh A.; Ransom, Michael H.; Sindell, Kenneth H. The following have passed in Part I: Andrews, Anthony C.; Beeby, James F.; Bibby, Dorothy M.; Block, Brian P.; Dabbs, Harry; Davey, Michael J.; Dufman, Annette; Edwards, James A.; Farmer, John B.; Frankel, Sidney S.; Free, Kenneth H.; Goode, Lesley J.; Greenhill, John V.; Gregory, John C.; Hart, Harold J.; Hersey, John A.; Holland, Peter; Howden, Ann M.; James, Peter D.; Kimber, Kneale J.; Lister, Jennifer E.; Lumby, Joyce M.; Maddison, Shirley; Matthews, David O.; Mundy, Judith; Newham, Janice; Northover, Basil J.; Owen, Thomas E.; Pollard, Victor F.; Price, Shirley A. P.; Pye, Diana A.; Record, Peter C.; Roberts, Terence A.; Rutyna, Krystyna; Share, Sylvia B.; Titterton, Eila P.; Thompson, Allen H.; Vasey, Brenda E.; Wade, Ainley; Waine, Geoffrey G.; White, Robert F.; Williams, David R.; Woodman, Michael; Yarroll, Barbara J.

# Scientific Glassware

DISPLAYS AT SHEFFIELD MEETING

THIRTEEN manufacturers are participating in an exhibition of scientific glassware at the annual meeting of the British Association for the Advancement of Science at Sheffield, August 29 to September 5. The exhibition is being staged in laboratory A.22 of the chemistry department, Sheffield University. A display of manufacturing processes and products of the British glass industry is also being held in laboratory B.15. It will include raw materials and hand and automatic methods of production. More than 3,000 people are expected to attend the meeting.

# IRISH NEWS **New Poisons List**

OPERATIVE FROM SEPTEMBER 1

A NEW Northern Ireland Poisons List, drawn up and submitted by the Poisons Board and confirmed by an Order coming into operation on September 1, is substantially the same as the old list with the following amendments:—

PART I. Additions:—to "amino-alco-hols, . . . these acids," add "their salts"; chloral; diacetyl-N-allynormorphine, its salts; dipipanone; hydrochloric acid; 6-mercaptopurine, its salts; metallic oxalates; methyldesomorphine; its salts; methylpentynol; nitric acid; sulphuric acid. Amendment:— for "colchicine" substitute "colchicum, alkaloids of."
PART II. Additions:—Barium carbon-

ate and barium silicofluoride; mercuric chloride; mercuric iodide; phenylene diamines, toluene diamines, other alkylated benzene diamines, their salts; under "phosphorous compounds," add demeton, mazidox, methyldemeton; potassium hydroxide; sodium hydroxide.

# **Students' Congress**

DANCES HELP TO PAY COST

THE Irish Pharmaceutical Students' Association is organising a series of dances in Dublin to help finance the International Pharmaceutical Students Federation congress which is being held in Dublin in September 1957.

# OVERSEAS NEWS

CANADA

### **Drug Industry for Nova Scotia?**

ONE of the conclusions of a recent economic survey of Nova Scotia, Canada, was that the Province should provide good prospects for the establishment of pharmaceutical manufacturing.

Many Medical Students

OUT of 23,933 students in all faculties at Belgium's four major universities, 6,421 (just over 25 per cent.) were studying medicine or pharmacy in the academic year 1955–56, according to a survey by the statistical bureau of the Belgian University foundation.

#### LEBANON

#### Heroin Seized

LEBANESE customs officials seized 26.4 lb. pure heroin in a recent raid on a clandestine laboratory in Beirut. In a statement in Rome on August 21, Mr. C. Siragusa (United States Bureau of Narcotics' representative in Europe) said that at least half the heroin seized was destined for the American market. The heroin was valued, unofficially, at about £1,285,700.

#### RUSSIA

#### Poliomyelitis Vaccine

Poliomyelitis vaccine is being pre-pared on a mass scale in Russia according to Moscow Radio recently, and the first 100,000 doses are ready for distribution. For the poliomyelitis laboratories 200 rhesus monkeys were received from China and the Dutch West Indies. Special vaccines for diagnosing the disease have been prepared and issued to twenty centres, and a clinic has been opened at Moscow Poliomyelitis Institute to treat the disease.

### **NEW ZEALAND**

First Vaccine Supplies

ENOUGH poliomyelitis vaccine for 25,000 children is arriving in Wellington from England fairly soon. Announcing a series of voluntary injections for children of nine years of age, the New Zealand Minister of Health said recently that he had hoped it would be possible to obtain sufficient vaccine to carry out a much larger and more comprehensive programme. To manufacture the vaccine in New Zealand was virtually impossible. With so many and pressing demands on available supplies New Zealand was fortunate to get even that quantity so early.

#### SOUTH AFRICA

Pharmacy in Danger

PHARMACY in South Africa was "in grave danger" because many doctors were doing their own dispensing, said the president of the Pharmaceutical Society of South Africa (Mr. A. Kramer) recently. During the past six years at least seventeen chemists' shops in country districts had closed for that reason. He hoped an amendment limiting dispensing by doctors would

be introduced during the second reading of the Medical, Dental and Pharmacy Act, now before the South African Parliament. The amendment which the Society hopes may be accepted will not deprive the public of its right to obtain medicines from a doctor if that should be necessary for immediate re-lief. It seeks only to limit dispensing by doctors if there is a chemist's shop within five miles of the surgery.

#### Poliomyelitis Vaccination

SALK-type poliomyelitis vaccine produced in South Africa is being used on a large scale in the Union.

#### UNITED STATES

# Narcotics Bill Passed

Both Houses of Congress passed a narcotics Bill recently under which the death penalty can be incurred by anyone selling heroin to minors. The Bill increases all other penalties for drug trafficking and forbids the use of heroin except for research purposes and prohibits the use of the telephone and postal services for purposes of and postal services for purposes of illicit drug traffic.

#### Training in Administration

A LARGER number of hospital administration courses in United States schools of pharmacy would have several advantages for pharmacy students. That was suggested by Dr. J. W. Boenigk (associate professor of pharmacy) and Mr. Russell Fiske (chief pharmacist), both of the Medical College of Virginia, Richmond, Va., when they addressed the annual meeting of the American Association for the Advence. American Association for the Advancement of Science in Atlanta, Georgia, recently. At the present time, they said, there was a shortage of hospital pharmacists in the United States and, in an effort to meet that shortage, seventeen schools of pharmacy provided graduate instruction in hospital pharmacy. Common to most of their programmes was hospital administra-tion. A larger number of hospital administration courses would give the graduate, the speakers said, an adequate background in administration which would benefit him in his capacity as a chief pharmacist since many of his duties were administrative. In addition, the compound training in hospital pharmacy and hospital administra-tion would qualify the graduate to act

both as chief pharmacist and assistant administrator in a small hospital.

Another speaker, Dr. R. C. WilLIAMS (director of the hospital services of the Georgie Department of Public of the Georgia Department of Public Health, Atlanta, Georgia), said that the hospital today was rapidly assuming the rôle of the health centre of the community. In hospitals with less than 100 beds, the full-time services of a pharmacist were not generally utilised. It was essential to provide adequate pharmaceutical services through local hospitals. pharmacists for smaller hospitals. Duties and responsibilities for the parttime hospital pharmacist, Dr. Williams said, included purchasing, storing, labelling, and distributing all drugs; inspection of drug stocks; development and improvement of close relations with all professional groups of the hos-

pital.

# **NEWS IN BRIEF**

AFTER having eaten seeds believed to be from laburnum trees, seven Manchester children were taken ill, recently, and had to receive hospital treatment.

THE Society for Analytical Chemistry is proposing to hold a symposium on microchemistry in Birmingham, August 20-27, 1958, organised by its Midlands section and microchemistry group.

An exhibition of colour photographs is being staged by Kodak, Ltd., at Kodak House, Kingsway, London, W.C.2, September 7-29. Fifty photographs taken by Reader's Digest staff photographers are being shown.

FLUOROHYDROCORTISONE preparations have been added to the list of specially expensive drugs, reagents and appliances for the supply of which doctors receive payment over and above their capitation fees.

THE industrial diseases subcommittee of the Industrial Injuries Advisory Council is reviewing the schedule of Prescribed Diseases for the purposes of the National Insurance (Industrial Injuries) Acts, at the request of the Minister of Pensions and National Insurance.

For the second time in four months there has been a smash and grab raid at the pliarmacy of Mr. Bernard Kay, M.P.S., 130 Breckfield Road North, Liverpool, 5. On August 23 a display window containing cameras and photographic equipment was broken and part of the contents stolen.

A CONFERENCE on "The Management Challenge of 1957. Can We Sell Our Way out of Inflation?" is being arranged by the Incorporated Sales Managers' Association in collaboration with the British Institute of Management at the Royal Festival Hall, London, on October 9.

UNDER the National Health Service (Designation of Teaching Hospitals, London) Order, 1956, effective from August 18, the Moorfields Westminster and Central Eye Hospital is being renamed the Moorfields Eye Hospital, and St. Peter's and St. Paul's Hospitals are being renamed St. Peter's, St. Paul's and St. Philip's Hospitals.

THE sale of chewing compounds (including chewing gum) which contain not more than 12.5 parts by weight of microcrystalline wax per 100 and otherwise contain no mineral oil is allowed under the Mineral Oil in Food (Amendment) (Scotland) Regulations, 1956 (S.I., 1956, No. 1294 (S.62)), effective from September 1.

A COPY of the film "Still Going Places," which deals with the management of the disabled, has been presented by the International Society for the Welfare of Cripples to Dr. Wiktor Dega (professor of orthopædic surgery, Poznan University, Poland). The film was sponsored by Chas. Pfizer & Co., Inc., U.S.A.

# SPORT

Golf.—PFIZER, LTD., v. MANCHESTER PHARMA-CEUTICAL GOLFING SOCIETY at Birkdale golf club on August 15. Winner, R. Demain, 75.

# TOPICAL REFLECTIONS

By Xrayser

# The Unkindest Cut

It is not given to all of us to achieve popularity. There are some who, possibly only at rare intervals, have fleeting glimpses of that desirable A small proportion find there is something elusive about it, and they never quite get there. But it takes character and a strong and rugged personality not only to shun the goodwill of our fellow men, but to go out of our way to invite obloquy. Such seems to be the unhappy characteristic of the Committee of Public Accounts, which in the past week or two has been the target for unfavourable comment in the Press, both lay and professional. Its views on expenditure in the universities have been severely criticised, and its strictures on the B.B.C. have not been universally acceptable. And needless to say its advice on the running of the pharmaceutical services under N.H.S. has aroused strong feelings in the profession. The revelations in the most recent report are staggering, more particularly perhaps in relation to Scotland, for the impression has been created that Scottish pharmacists were on a better wicket than their colleagues in England and Wales. But it is disquieting to read that the Department of Health, in face of accountants' figures revealing an average loss to the smaller dispensing businesses of 13.8d. per prescription, actually contemplated an average cut of threepence per prescription to reduce the surplus of the bigger businesses. As you point out in your editorial, this was to be a "tactical" cut based on figures already three years old, but the Department realised that rising costs might already have absorbed the average 3.33d, which it regarded as a surplus. The Committee of Public Accounts deplores the lack of action on the part of the Department, and would have viewed with equanimity an increased loss to the smaller businesses, resulting in a deficit of 16.8d. per prescription. It is an unfortunate feature of the reporting and comment in the lay Press that only the surplus should have been mentioned, and that no statement, in several accounts I read, made any reference to the fact that, for a large number, the pharmaceutical service has to be heavily subsidised by other departments of the

### The Doctor and the Teacher

The summary dismissal of the doctors' claim for a revision in their terms of service, to take account of the cost of living increase since the Danckwerts award in 1951, has not been well received by the medical profession, and it will be surprising if the last has been heard of the subject. The announcement last week of the new scales for the teaching profession is some recognition both of the rising cost of living and of the fact that many graduates were being forced to leave the profession and to go into industry. Official figures appeared recently indicating that between 1951 and 1956 the purchasing power of money fell by about one third, and that figure is not exclusive to any one section of the community. It affects the teacher. It affects the doctor. And it is reasonable to suppose it has affected the pharmacist. Any suggestion of 5 per cent. cuts is simply fantastic, and pharmacy must line up behind its leaders in their claim for early and just revision.

# Dublin

By the time these words are in print, the pilgrimage to Dublin will be in full cry. By sea and by air, representatives of pharmacy from all over Britain will be converging on the capital city, and it is to be hoped that the weather will repent of its bad behaviour and that the sun will shine. Dublin holds an honoured place in the healing arts. In the early eighteenth century, Dublin saw the establishment of the first voluntary hospital, when in 1710 Richard Steevens bequeathed his estate to build a hospital "for such sick and wounded whose wounds are curable." The Irish capital thus forestalled London, where Guy's was not opened until 1728. Dublin is well fitted to entertain a conference of any of the healing professions.

# EXPERIMENTS ON LIVING ANIMALS

Report for 1955

THE annual return of experiments on living animals published recently (H.M. Stationery Office, price sixpence) shows that during 1955, 2,476,201 experiments were performed. 5,161 persons held licences and 1,443 licensees performed no experiments. Experiments performed under anæsthesia throughout, totalled 33,017.

#### Operations Under Anæsthetics

In 266,707 experiments, operative procedures were carried out under anæsthetics from the influence of which the animals, on conclusion of such procedures, were allowed to recover. Since no cutting operation more severe than superficial venesection is allowed to be performed without the use of anæsthetics, the operations performed in these experiments included many of a minor surgical character.

The number of experiments performed without anæsthetics was 2,176,477, constituting approximately 87 per cent. of all those made during the year. Those experiments were mostly inoculations, external applications, modifications of the animal's diet or environment, or the administration of a drug or toxin, followed in each case by observation of the results which might follow. In many such cases, notes the return, the results are negative and the animal suffers no harmful effects at all. It remains under experiment from the time of the initial procedure until it recovers from the effects, if any, or dies, or is killed.

effects, if any, or dies, or is killed.
Cats, dogs, horses, asses or mules were used in 12,697 experiments. That number is approximately one half of one per cent. of all experiments performed in 1955 and 7,903 of those 12,697 experiments were performed under anæsthesia throughout the whole period.

In the course of cancer investigations, the returns show that 292 licensees carried out 148,175 experiments. Of those experiments 45,566 were performed under anæsthesia and 102,609 without anæsthesia. The great majority of these experiments were performed upon rodents, and those performed without anæsthesia, involved mostly external applications, injections or "feeding" experiments designed to test for any possible cancer producing factors in foods or other substances in common domestic or commercial use. For the purposes of public health or

For the purposes of public health or directly for the diagnosis of disease, 180,303 experiments were made. With relatively few exceptions those were proceedings involving merely simple inoculations.

On behalf of Government Departments and bodies such as the Medical Research Council and the Agricultural Research Council, some 528,506 experiments (including a considerable proportion of the experiments for diagnostic purposes already mentioned) were carried out.

Over a million experiments were performed in the course of preparing and testing substances intended for use in the treatment of disease in man or in animals, these including 925,908 ex-

periments for standardisation of sera, vaccines, or drugs.

There were, over the period covered by the report, 520 places on the Register at which experiments on animals might be performed. New registrations numbered twenty-four and removals from the Register fifteen.

In the course of the year, 1,508 visits, mostly without previous notice, were paid by the inspectors to registered laboratories, and the inspections showed that both stock and experimental animals were properly accommodated as well as cared for, and that licensees in general were fully attentive to the requirements of the Act and to the conditions attached to their licences by the Home Secretary. In addition to places already on the Register, the inspectors visited thirty-two other premises proposed for registration.

The following irregularities were reported during the year:—

Seven cases occurred in which licensees exceeded the scope of their current certificates under the mistaken impression that the latter provided the necessary cover. In all those cases a certificate for the work would have been granted initially had it been

applied for, and was in fact subsequently granted upon receipt of a fresh certificate application.

There was one instance of a licensee performing experiments for which certificate B is required, without holding that certificate. Upon inquiry into the circumstances of the case, it was ascertained that the situation had arisen during the temporary absence due to sickness of the pathologist in charge of the laboratory, who himself held the necessary certificate for that type of experiment and would have carried out the work himself had he been present.

One case was reported in which a series of simple experiments were initiated by a licensee who held a certificate A authorising the experiments, and were mistakenly continued by an assistant. The circumstances of that case were brought to the notice of the Vice-chancellor of the University concerned, and after full investigation he took action to avoid any repetition of the error.

In none of those cases did it appear that there had been any deliberate intention to contravene the Act, but it was considered by the Home Secretary that there had been misunderstanding as well as a reprehensible degree of carelessness, and those concerned were admonished and warned as to their responsibilities under the Act.

# **INQUESTS**

Took Liquid Containing Cyanide. — At an inquest at Stratford-on-Avon recently, a woman was said to have locked herself in her bedroom for three days before drinking a glass of liquid containing sodium cyanide. The coroner recorded a verdict that Mrs. Natgaretta Philipina Lamb, aged sixty-eight, Cotswold Edge, Whitchurch, Stratford-on-Avon, killed herself whilst the balance of her mind was disturbed.

Overdose of Slimming Tablets.—At an inquest at Eastleigh on August 15, evidence was given that Miss Lydia Alma Miglio, aged sixteen, Romsey Road, Eastleigh, died from an overdose of slimming tablets. A verdict of suicide while the balance of the mind was disturbed was returned. Police gave evidence that the torn parts of a carton which had contained tablets supplied to the girl by a chemist, had been found in a dustbin. The prescription had been traced.

Suicide with Barbiturate. — At an Exeter inquest on August 8 on Mr. Peter Riddrie Mayer, aged twenty-two, Colleton Crescent, Exeter, a pathologist gave evidence that death was due to barbiturate poisoning. A very heavy dose had been administered. Police evidence was given that two empty Seconal sodium bottles and one bottle containing some tablets of sodium Amytal had been found in the deceased's room. Those drugs had not been prescribed by the man's doctor. Mr. Mayer's fiancée said that deceased had not liked the idea of both his brothers being married, and of his being left on his own at home. It had depressed him. He had been found dead the day after the wedding of one of his brothers. His

fiancée said that she had heard him threaten to take his own life when he had been depressed. A verdict of suicide while the balance of the mind was disturbed was returned.

Suicide by Sleeping Tablets. -Southport inquest, on August 16, the coroner was told that a widow who lived alone in her flat and was found dead by police had taken an overdose of sleeping tablets. The woman had last been seen a fortnight before she was found dead. A verdict was recorded that Mrs. Ellen Wells, aged fifty-nine, Pilkington Road, Southport, took her life while the balance of her mind was disturbed. It was stated she had been under treatment for several years for nerves. The coroner said he was satisfied some sudden impulse came over her and that she took all her tablets. It was stated that after her father's death some years ago, she came home soaking wet and told a doctor she had decided to end her life and had jumped into the Marine Lake. Subsequently she was a voluntary patient in a mental hospital and was discharged as recovered. She became depressed again after her husband's death and was prescribed sleeping tablets.

Addicted to Chlorodyne. — At Newcastle, on August 21, the coroner was told that Mrs. Mary McClellan, aged forty-five, Hillside Crescent, Newcastle on-Tyne, started twelve years ago to take chlorodyne to ease pains in he stomach and became addicted to it. He husband said she told him she could not do without it, and although he tole all the local chemists not to supply her somehow she got chlorodyne, which she always took neat. He found her dead in

bed with a bottle of the drug under the pillow. A pathologist said death was due to a heart attack, caused by an overdose of chlorodyne. The coroner said he thought there was no question of her committing suicide. He recorded a verdict of misadventure.

"Apparently Innocent Containers."
—The practice of chemists of using "apparently innocent containers" for packing dangerous tablets prescribed by doctors for their patients was criticised by the Croydon coroner recently. He made the comment at an inquest on Mr. Arthur Woonton, aged sixty-six, Norbury Avenue, Thornton Heath. The coroner said that nothing Mr. Woonton had done disclosed any intention whatever of his taking his own life. He might have been depressed. In the absence of evidence of how, when, or for what purpose he took the tablets, an open verdict would be recorded. Mrs. Florence Mary Woonton said that a doctor had been seeing her husband once a month, or if he was called, and had prescribed tablets. A fortnight earlier she had received fifty of the tablets.

She used to put them away in a different place each night, sometimes in one drawer and sometimes in another. She gave them to her husband two at a time. She had promised the doctor that she would not keep the tablets near her husband, where he could get them himself. Her husband had been depressed for a fortnight. He said he was tired of being ill, and wished that he did not have to be waited on so much. But, although he said he was tired of life, she had never heard him threaten to take his own life. When she left home on the day of his death there should have been thirty-eight to forty tablets in the box. Later in the day she was called from her work and arrived home to find her husband dead. Dr. John Appleyard said he found Mr. Woonton in a deeply comatose condition. He had not noticed any suicidal tendency, although Mr. Woonton had been depressed. Mr. Woonton did not always have those particular tablets, and in June was given something else. Dr. Appleyard agreed that his visits had not been frequent. Dr. David Haler said he considered that Mr. Woonton had taken about forty-one ½-gr. tablets. It was a fact that people who were accustomed to barbiturate drugs were able to continue taking them automatically after the normal dose.

# MARRIAGE

LESLIE—SMITH. — At Cambuslang Congregational Church, Glasgow, on August 22, John Hutcheon Leslie, M.P.S., 43 Brownside Road, Cambuslang, to Alice Maureen Smith, 18 Brownside Road, Cambuslang.

### **DEATHS**

BACHE. — Suddenly, at his home on August 21, Mr. C. Sidney Bache, J.P., The Gables, Middlefield Lane, West Hagley, Worcs, aged seventy-six. Mr. Bache was chairman of Geo. Salter & Co., Ltd., West Bromwich. He had been a director of the company since 1917, and was appointed its chairman in 1944. Mr. Bache served as a mem-

ber of West Bromwich town council, 1907-45, and during that time was for a period chairman of its education and finance committees. He was mayor of the borough in 1913, and was elected an alderman in 1917. In recognition of his services to the town he was presented with the Freedom of the borough in 1942. Mr. Bache was a keen sportsman and was for many years president of West Bromwich Harriers. He is survived by his widow and two sons—Mr. R. P. S. Bache (managing director of Geo. Salter & Co., Ltd.) and Mr. G. P. Bache (managing director of the company's Australian subsidiary).

BRENTNALL.—On August 12, Mr. Percy Walker Brentnall, M.P.S., Wincroft, Collingham, Wetherby, Yorks, aged seventy-two.

CROSSLEY-HOLLAND. — At his home, on August 27, Dr. F. W. Crossley - Holland, M.P.S.,

F.C.S., barrister - at - law, Overy Rahere, Ranere, Staithe, Burn-ham Market, Norfolk, aged seventy eight. Dr. Crossley-was Holland educated Tamworth Grammar School and London University, and qualified as a

passing that ex-



qualified as a chemist and druggist in 1900. After Conference, Belfast, 1935.

amination, he was for some time on the staff of Menley & James, Ltd. He became a Fellow of the Chemical Society in 1912. In 1914 he published The Pharmacy Handbook, and was also for a time associate-editor of The Prescriber. He turned to the study of law, and was called to the Bar at Gray's Inn in 1918. He practised in the High Court and on the Midland Circuit. He took the degree of Doctor of Civil Law in 1920. After practising for some years he returned to research in pharmacy at St. Bartholomew's Hospital and at the Sorbonne. Dr. Crossley-Holland was chairman of the British Pharmaceutical Conference in 1935. He also played a prominent part in local affairs in Bedfordshire and Norfolk, and in 1939 was High Sheriff of Bedfordshire.

LIVESEY. — On August 12, Mr. Cyril Gerrard Livesey, M.P.S., 168 Ribbleton Avenue, Preston, Lancs, aged forty-eight.

PITT. — On August 15, Mr. George Metford Farquharson Pitt, M.P.S., Glen View, Knowle, Braunton, Devon, aged eighty-three.

THOMPSON. — Suddenly, while on holiday at Mawgan Porth, Newquay, Cornwall, on August 25, Mr. Leslie Thompson, M.P.S., 422 Long Moor Road, Fazakerley, Liverpool. Mr. Thompson qualified in 1939. He was drowned while assisting his elder son who had got into difficulties while swim-

ming. The boy succeeded in reaching the shore. Mr. Thompson is survived by his widow and two sons.

WALKER. — On April 9, Mr. Herbert Clarke Walker, F.P.S., c/o 588 Sandy Bay Road, Hobart, Tasmania. Mr. Walker, who qualified as a chemist and druggist in 1910 and passed the Pharmaceutical Chemist examination in 1911, was formerly at Harrow, Middlesex. He went to Tasmania recently for health reasons.

WHITE. — On August 3, Mr. James Frederick Charles White, M.P.S., 12 Lawn Road, Southampton. Mr. White qualified in 1922.

WILSON. — At Southern General Hospital, Glasgow, on August 22, Mrs. Florence Wilson, 49 Croftend Avenue, Glasgow. Mrs. Wilson was the widow of the late Mr. James Wilson, M.P.S.

### LEGAL REPORTS

#### **Unlawful Possession**

AT Birkenhead, on August 11, an Egyptian seaman, Hassan Khalifa, was fined £5 for being in unlawful possession of  $\frac{1}{2}$  oz. of prepared opium.

#### **Barbiturate in School Milk**

AT Houghton-le-Spring juvenile court on August 18, a fourteen-year-old schoolboy was given a conditional discharge for stealing barbiturate capsules from a pharmacy where he was a part-time employee. It was stated that he had distributed the capsules among his school friends who had used them in their milk "to make it fizz." The boy said that he did not realise that the capsules could prove fatal. He took them because he thought they "looked nice."

#### Arrested in Pharmacy

An arrest in a Putney pharmacy was described at South-western [London] magistrates' court on August 10 when Patrick Joseph O'Farrell, Burleigh Hall public house, Princes Way, Wimbledon Park, was charged with attempting to obtain 200 Dexedrine tablets by means of a forged prescription. He was charged with obtaining a similar amount from a

Fulham pharmacy. A police constable said he saw O'Farrell in a pharmacy in Putney. He asked him if he was the man who handed in a prescription the previous day and he said, "The prescription was given to me by my doctor." Later, in a statement, he admitted he had been writing out prescriptions himself for some time. In his room at Burleigh Hall was found a rubber stamp. A detective stated that O'Farrell asked for eight other similar offences to be considered. He was a native of Ireland and had worked for a time as a trainee nurse at a hospital. He started taking the tablets when he was on night work, to keep himself awake. The magistrate said that O'Farrell had stupidly allowed himself to become an addict, and had they been Dangerous Drugs he would have been sent to prison. He would be conditionally discharged and if there was any repetition of the offences he would be brought back and sent to gaol. He would at present have to pay £15 15s.

# **NEW COMPANIES**

P.C .- Private Company; R.O .- Registered Office.

FITZMAURICE CHEMISTS, LTD. (P.C.).—Registered in Dublin. Capital £6,000. Subscribers: George Johnston and W. Stanley Hill, solicitors, 41 Royal Avenue, Belfast. The first directors are not named.

KENYON PHARMACY, LTD. (P.C.).—Capital £100. To carry on the business of chemists and druggists, etc. Directors: Maurice Copeland and Jeffrey Green. R.O.: 23 King Street, Manchester, 2.

P. WILLIAMS (CHEMISTS), LTD. (P.C.). — Capital £3,500. To acquire the business of a pharmaceutical chemist carried on at 102 Victoria Street, Crewe. Directors: Maud E. Williams and John Williams, M.P.S.

TABCULES, LTD. (P.C.).—Capital £100. To carry on the business of manufacturers of and dealers in chemists' sundries, etc. Directors: Charles Lipshaw and Geoffrey A. Lipshaw. R.O.: 18 Victoria Street, Blackpool.

CALVERTS (GRANTHAM), LTD. (P.C.).—Capital £8,000. To acquire the business of a dispensing chemist carried on at 45 High Street, Grantham. Directors: George S. Daykin, M.P.S., Robert A. Daykin and Thomas Healey, M.P.S.

FADELS, LTD. (P.C.).—Capital £100. To carry on the business of wholesale and retail chemists, druggists, etc. Subscribers: Jean Herbert and Thomas A. Herbert, 156 Strand, London, W.C.2. The first directors are to be appointed by the subscribers.

SIMIC, LTD. (P.C.). — Capital £2,000. To carry on the business of chemists, druggists, librarians, etc. Directors: Slobodan Simic, John Yovanovitch and Spasoje Sterdjevic. R.O.: Broughton House, 6 Sackville Street, London, W.1.

A. D. PERRIE DISTRIBUTORS, LTD. (P.C.).—Capital £100. To carry on the business of dealers in perfumes, cosmetics, etc. Subscribers: A. B. Kiddell, 8 Rutland Street, London, S.W.7, and George L. Kiddell.

MARKET STREET PHARMACY, LTD. (P.C.).—Capital £1,000 To carry on the business of wholesale and retail chemists and druggists, etc. Directors: Audrey M. Taylor, M.P.S., and Annie Eavers. R.O.: 9 Market Street, Royton, Lancs.

OAKS CROSS PHARMACY, LTD. (P.C.).—Capital £100. To carry on the business of wholesale or retail manufacturing and general chemists, etc. Directors: Edmond D. Maguire, M.P.S., and Yvonne J. Cole. R.O.: 93 Broad Oak Way, Stevenage, Herts.

A. P. IVES, LTD. (P.C.).—Capital £1,000. To carry on the business of chemists, druggists and librarians, etc. Directors: Alfred P. Ives, M.P.S., and Petronella S. Ives, Frederick P. Rawlinson and Doris L. Rawlinson. R.O.: 17 Charminster Road, Bournemouth.

A. J. CAMPBELL, LTD. (P.C.).—Capital £1,000. To carry on the business of manufacturers of and dealers

in chemicals, gases, drugs, etc. Directors: Archibald J. Campbell, M.P.S., and Maureen G. Campbell. R.O.: 133 Bath Road, Slough, Bucks.

A. D. WYLLIE, LTD. (P.C.).—Capital £4,000. To carry on the business of manufacturing, analytical, and general chemists, etc. Directors: James R. Wyllie, M.P.S., Annie B. Wyllie and Robert G. Tate, R.O.: 2 Whitehall Road, Gateshead, 8.

J. WELSBY (CHEMIST), LTD. (P.C.).—Capital £3,000. To carry on the business of manufacturing, dispensing, and analytical chemists, etc. Directors: James Welsby and Elsie Welsby. R.O.: 747 Knutsford Road, Warrington.

COLMORE STREET STORES, LTD. (P.C.). — Capital £1,000. To carry on the business of chemists, druggists, mineral and aerated waters, etc. Directors: Claude G. Thomas and Yolande Thomas. R.O.: 123 Great Colmore Street, Birmingham, 15.

G. E. FLIN, LTD. (P.C.). — Capital £100. To carry on the business of manufacturers of and dealers in insecticides, fungicides, disinfectant, fumigants, etc. Directors: George E. Flin and Eileen M. Flin. R.O.: 1 Woodland Way, West Wickham, Kent.

J. ALLEN JONES, LTD. (P.C.).—Capital £10,000. To carry on the business of chemists, druggists, etc. Directors: James A. Jones, M.P.S., Mrs. Jessie T. Jones and Robert A. Jones, M.P.S. R.O.: 122 South Road, Waterloo, Liverpool, 23.

PRICE'S LABORATORIES, LTD. (P.C.).—Registered in Dublin. Capital £1,000. To act as wholesale and manufacturing pharmacists, chemists and druggists. Subscribers: Cecil Hollinshead, 62 The Rise, Mount Merrion, co. Dublin, and James Coffey.

F. J. WHELAN, LTD. (P.C.). — Capital £1,000. To carry on the business of consulting, manufacturing and general chemists, herbalists, etc. Directors: Frederick J. Whelan, M.P.S., Hetty Whelan and James Pennington, M.P.S. R.O.: 8 High Street, Standish, Lancs,

ORGANIC INTERMEDIATES, LTD. (P.C.).—Capital £2,000. To carry on the business of manufacturers and importers of and dealers in all types of chemicals and chemical products, etc. Directors: Alan Brewer, Merton I. Behrman. R.O.: Lees Road, Kirkby Industrial Estate, Liverpool.

P. G. TURNER (CHEMIST), LTD. (P.C.).—Capital £2,500. To carry on the business of photographic and dispensing chemists and druggists, opticians, etc. Directors: Mary Turner and Peter G. Turner (directors, A. E. Sewell, Ltd.). R.O.: 62 High Street, Ramsey.

CASSENNE LABORATORIES, LTD. (P.C.).—Capital £1,000. To carry on the business of wholesale and retail chemists and druggists, laboratory proprietors, etc. Subscribers: Evelyn J. Robertson, 211 Richmond Road, King-

ston-on-Thames, Surrey, and Arline Posner. The first directors are to be appointed by the subscribers.

PERMAVU, LTD. (P.C.). — Capital £1,500. To carry on the business of processers and manufacturers of and dealers in chemical compounds for industrial and domestic purposes etc. Directors: Samuel Shinwell, Kenneth P. Britton, Charles P. Butcher and Peter R. L. Drew. R.O.: 20 Southampton Place, London, W.C.1.

DELICATE CO., LTD. (P.C.). — Capital £10,000. To carry on the business of manufacturers of and dealers in pharmaceutical, medical, surgical, toilet, sanitary and household products, etc. Directors: Marjorie Clarke (director, Alan Hill, Ltd.), and Kathleen M. Smith. R.O.: 9 Basinghall Street, London, E.C.2.

METEMICALS (CANNON), LTD. (P.C.). — Capital £6,000. To carry on the business of buyers and sellers, importers and exporters of chemicals and chemical products and by-products, etc. Directors: Curt C. H. Niemann, Frank A. Meyer, and Walter R. Cogger, 101 Gloucester Road, Tottenham.

Company News

THOMAS WAIDE & SONS, LTD.

—Mr. Brian O'Malley, M.P.S., has been

appointed to the board and is to serve as London director with offices at 25 Oxford Street, London, W.1. Mr. O'Malley is managing editor of Alchemist publications.

E V A N S M E D I C A L S U P P L I E S (NORTHERN), L T D . — Mr.

LL.B. (formerly managing director of Evans Medical Supplies (India) Private, Ltd.), has been appointed general manager from September 1.



# **BUSINESS CHANGES**

HOBART MANUFACTURING CO., LTD., have removed to 66 Paradise Street, Liverpool (telephone: Royal 3254).

B. & P. LABORATORIES (ECO-NOMIC UTILITIES, LTD.) have removed their factory to 9 Packington Road, Acton, London, W.3 (telephone: Acorn 6771).

BARCLAY & SONS, LTD., 37 Devonshire Place, Brighton, have closed down their London premises at 59 Barbican, London, E.C.1. They wish to state that they are in no way connected with Barclay House Pharmaceuticals, Ltd., who have commenced trading at the London address.

Appointments

C. J. HEWLETT & SON, LTD., King George's Avenue, Watford, have appointed Mr. O. J. Cole their representative in the South Coast area.

### **NEW PRODUCTS AND PACKS**

Products, Ltd., 352 Strand, London, W.C.2, announce the introduction of an electric shaver for women, the Lady Ronson. The shaver, which is available in pastel pink and pastel blue



shades, can be used for shaving the legs and underarms, and for trimming hair on the nape of the neck. It is supplied in an attractive presentation box, the drawer of which is used for storing the flex, cleaning brush and adaptor.

Baby Powder in Improved Pack. — From September 1, Cow & Gate, Ltd., Guildford, Surrey, are introducing their baby powder in an improved tin with a rotorcap top.

Tablets in Metal Strip Pack. — The retail size of standard Paynocil is being packed by C. L. Bencard, Ltd., Minerva Road, London, N.W.10, in metal strip foil, from September 17.

New Emulsion Polish. — A new emulsion polish specially made for thermoplastic tiles is being marketed by Silexine Paints, Ltd., Richford Street, London, W.6. Called Glint, the product is packed in 8 fl. oz. and one pint containers.

Liquid Laxative. — A new cherry-flavoured liquid laxative, Cirotyl, each c.c. of which contains 0.415 mgm. diacetoxydiphenylisatin, is being marketed by Parke, Davis & Co., Ltd., Staines Road, Hounslow, Middlesex. Packs are bottles of 4 and 80 fl. oz.

Fowl Typhoid Treatment. — For the treatment of fowl typhoid and B.W.D., Imperial Chemical (Pharmaceuticals) Ltd., Wilmslow, Cheshire, are marketing Furella, which is a premix of furazolidone. Packings are carton of six 4-oz. envelopes, and 1-lb. and 7-lb. tins.

New Hot Water Bottle. — The latest addition to the range of hot water bottles marketed by J. G. Ingram & Son, Ltd., Hackney Wick, London, E.9, is the Restwell junior. The bottle is standard size, and embodies the special finned design. It is available in green, blue, pink or orange.

New "Economical Packs."—Crookes halibut oil capsules are now being supplied in "new economical packs" by the Crookes Laboratories, Ltd., Park Royal, London, N.W.10. The new packs are of thirty, sixty and 120 capsules. The company are undertaking to replace old packs of twenty-five

and 100 with thirty and 120 packs, on a pack for pack basis.

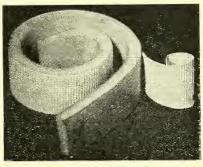
Anti-Obesity Capsules. — Lederle Laboratories Division, Cyanamid Products, Ltd., Bush House, Aldwych, London, W.C.2, are introducing to the United Kingdom market on September 1 new anti-obesity capsules, Revicaps. Each capsule contains 5 mgm. dextro amphetamine sulphate to suppress the appetite, 200 mgm. methyl cellulose, to produce bulk to allay hunger, and a full complement of vitamins and minerals to prevent dietary deficiencies. The capsules are packed in bottle of 100.

Vitamin Supplement. — Lederle Laboratories Division, Cyanamid Products, Ltd., Bush House, Aldwych, London, W.C.2, are introducing on September 1 Stresscaps capsules containing a supplement of vitamins for hastening recovery and body repair during extraordinary physiological stress by shock, injury, burns, surgery or severe infection. Each capsule con-

TRADE

Discontinued Products. — GLAXO LABORATORIES, LTD., Greenford, Middlesex, announce that their procaine penicillin oily injection 300,000 units has been discontinued, having been superseded by newer prolonged action preparations such as Mylipen, Benapen and Triplopen.—PARKE, DAVIS & Co., LTD., Staines Road, Hounslow, Middlesex, state that the following preparations have been discontinued and stocks are exhausted:—Crysto-Vibex solution, 25 mgm. ampoules; Dermaseptic shaving stick; and vitaminorum capsules (N.F. 1949).

Self-adhesive Polyurethane Foam.—Stick-a-seal self-adhesive polyurethane foam is now being produced in a range of thicknesses and widths suitable for many forms of medical application. It is being used as splint linings, in orthopædic jackets, and for the aseptic dust proofing of instrument cupboards and cabinets. It is claimed that the strip is insect and bacteria resistant, and that it is unaffected by light, oxygen or ozone. The suppliers, Sealdraught, Ltd., Chandos House, Buckingham Gate, London, S.W.1, claim that it sticks firmly to most dry, dust and grease free surfaces. The



polyurethane foam is not affected by water, oil or grease. Polyurethane foam is produced in standard thicknesses of  $\frac{1}{8}$ ,  $\frac{3}{16}$  and  $\frac{1}{4}$  in., but thicker

tains vitamin B<sub>1</sub>, 10 mgm.; vitamin B<sub>2</sub>, 10 mgm.; niacinamide, 100 mgm.; ascorbic acid, 300 mgm. and folic acid, 5 mgm. Pack is bottle of thirty capsules.

Prescription Sunlamp. — Philips Electrical, Ltd., Century House, Shaftesbury Avenue, London, W.C.2, are introducing the Philips Sunlamp on September 1. The lamp will be supplied only against a certificate signed by a doctor, and is equipped with a mercury discharge quartz tube which emits ultra-violet rays of a wavelength equivalent to that of the sun at high altitude, and a glow filament which also acts as a ballast for the mercury tube. The lamp thus emits both ultra violet light and warmth. The lamp is mounted in a portable fitting of asbestos loaded Philite, which allows the lamp to be pivoted to any convenient angle. The lamp is designed for operation on any voltage between 200 and 250 volts A.C. Consumption is 300 watts. A pair of newly designed goggles is supplied with each lamp.

#### NOTES

grades up to  $\frac{3}{4}$  in. can be specially made. There are a variety of widths up to 4 in., but it may be obtained to order to a maximum of 19 in. wide. Length of roll is from 13 to 25 ft.

New Makers. — Orders for Fitilin brand revitalising rub should now be sent to Potters Hygienic Products (London), Ltd., 81 High Street, Dunmow, Essex. That company has, by arrangement with London Solvents, Ltd., and Fassett & Johnson, Ltd., taken over manufacture of the product. Make-up, packing, and retail price are unaltered.

#### **Bonus Offers**

Cow & GATE, LTD., Guildford, Surrey. Baby powder. 1s. on every doz. September 1-November 30.

POTTER & CLARK, LTD., River Road, Barking, Essex. Potter's catarrh pastilles and crystallised catarrh pastilles. Thirty-six tins charged as thirty-three. Potter's new range of pastilles (any assortment): Gee's linctus, B.P.C.; compound glycerin of thymol, B.P.C.; glycerin and blackcurrant; glycerin, lemon and honey. Seventy-two tins charged as sixty-six. September 3-November 30.

SAVORY & MOORE, LTD., 60 Welbeck Street, London, W.1. Dr. Jenner's Medilax, Dentural, Quinasp. Thirteen to the doz.

SMITH & NEPHEW, LTD., Bessemer Road, Welwyn Garden City, Herts. Blue Velvet hand lotion, either or both sizes. Twelve bottles charged as eleven on orders with minimum trade price value £3; and twelve bottles charged as ten on orders with minimum trade price value £5. From September 3.

#### **Christmas Showrooms**

SPA BRUSHES, LTD., Freeman Works, Chesham, Bucks.

Newcastle-on-Tyne: Royal Turks Head Hotel, September 10-14.

### FIGURES IN THE PHARMACEUTICAL WORLD

AT about the time soldiers were marching along the roads of France or Flanders to the tune of "It's a Long Way to Tipperary" in the 1914–18 war, a young boy from Tipperary town went behind the counter of the McMahon Day pharmacy in Limerick City to start on an apprenticeship in pharmacy. The boy from Tipperary, Patrick Francis McGrath, has become one of the out-standing men in Irish pharmacy today, and is chief Irish host to the hundreds of delegates who are in Dublin for the British Pharmaceutical Conference. "Frank" McGrath (as the president of the Pharmaceutical Society of Ireland is known to his friends) passed through the halls of the Jesuit College at Mungret, county Limerick, where he received his secondary education before starting on his career. In scholarship and classics, Mungret stands high amongst Irish colleges, and it is with affection the president looks back on those early days in his Alma Mater. Limerick was an interesting and compact Irish city in which to spend the four or more years of a busy apprenticeship, and from there Frank McGrath, like many more Irish phar-maceutical students of those days, gravitated to Dublin to get in their lec-tures at 67 Lower Mount Street, and to gain additional experience in Dublin pharmacies.

In Ireland, however, the unexpected mostly happens, and the even tenor of Frank McGrath's progress in pharmacy was unexpectedly interrupted by big political and constitutional changes. A treaty had been signed between Britain and Ireland, and the Irish Free State had been brought into being, but not before the harrowing days of a Civil War, which happily today has left no bitter aftermath. Quitting his pestle and mortar, pharmaceutical student and assistant McGrath left aside his white coat in 1922 to don the green uniform of an officer in the Irish Army, He served with an Infantry Brigade until peace was restored, and was later picked by the Army authorities in 1926 as one of a young band of officers to form the nucleus of an Irish Air Force at Baldonnel, county Dublin. In the succeeding three years the future president gained much administrative experience as an observer. During those Army days however, Frank McGrath kept closely in touch with pharmacy and actually attended some lectures and sat for his final examination, and qualified as a Licentiate of the Society, while a serving Infantry Officer

ing Infantry Officer.

Army life ended in 1929, and professional activities were resumed when the president-to-be opened his own pharmacy at Oxmanton Road, in one of the most populous residential districts of North Dublin. Within a few years the McGrath pharmacy became a thriving suburban establishment, but Frank McGrath, like the late P. C. Cahill, was not the sort of man whose horizon is bounded by his pharmacy counter. Like Paddy Cahill, one of his closest friends, he has always been keenly interested in the idea of giving the country some pharmaceutical industries, and he is a director and moving force behind sev-



### 42. Mr. PATRICK F. McGRATH

eral such enterprises. The same spirit of enterprise and adventure led him to open a second and flourishing modern pharmacy on O'Connell Street, right in the heart of Dublin. By now, several of the president's young family were engrossed in various aspects of the business. One of the president's daughters became a qualified beauty consultant and cosmetician, and took charge of the cosmetic side of the O'Connell Street business. His son Derrick, who qualified as a Licentiate three years ago, is much interested in the photographic side of the business, which is run as an important part of the O'Connell Street pharmacy. Close to Dublin's Gresham Hotel, the McGrath pharmacy is known to many English and American visitors, and is one of the smartest and best run in town.

Long before he went on to the Council of the Pharmaceutical Society, Frank

McGrath had won a name for himself as an administrator and man of moment in pharmaceutical politics. The ability with which he filled the presidency of the Irish Drug Association in the years 1940 and 1941 made it inevitable that he would be urged to take his place in the counsels of pharmacy. After his first year as vice-president of the Society, Council members were unanimous that he should be their president during the present vital Conference year. The choice is an excellent one. No man in Irish pharmacy can be a more excellent host. He is a fine mixer, and his warmth and spontaneity of manner make him a gracious and admirable president. Above all, on big public occasions he is a forceful and forthright speaker, who can put his views with a terseness and logic that wins respect. At the National Health Council, where he represents pharmacy, he proved himself an able

and effective advocate for his profession, and has won the confidence and admiration of the other professional representatives there. In the trying days of 1955, when the Fair Trade Commission hearings called for strong leadership, Frank McGrath proved himself a fearless president, of whom the Society's members as a whole were justly proud.

Away from the serious problems of

the profession the president is an ardent devotee of "the white pill," finding all his relaxation on the golf course. He sone of the staunchest and oldest members of the Irish Chemists' Golfing Society, and seldom misses an outing. He has an abundant sense of humour, and can richly enjoy a good joke or quip amongst colleagues on or off the golf course.

During the coming Conference week pharmacists from all parts of Britain and the North will see much of, and hear Frank McGrath in action throughout one of the biggest and most arduous weeks in a crowded career, and the bet is that all will carry away the kindest and most enduring impressions of this Tipperary man who will be the Republic's Representative Number One.

### UNITED STATES DEVELOPMENTS

A NEW analgesic drug, anileridine (ethyl 1-(4 aminophenethyl)-4 phenylisonipecotate) has been synthesised by Merck-Sharp & Dohme Research Laboratories, Rahway, New Jersey. After the clinical research stage the drug is being marketed in the United States under the name Leritine.

#### New Male Hormone

A new male sex hormone, Halotestin, has been synthesised by the Upjohn Co., Kalamazoo, Michigan The new hormone is undergoing clinical trials in human therapy. Preliminary results look promising and indicate that the hormone is considerably more potent than methyltestosterone without producing undesirable side effects.

#### New Amæbicides

A new series of chemical compounds which have been found to be highly effective against amæbiasis, have been developed by Parke, Davis & Co., Detroit, Michigan. The series are heterocyclic acetamides and the most active of these is DHPA (2,2-dichloro-N-(2-hydroxyethyl)-N-(4-pyridylmethyl) acetamide).

#### Multivitamin Cream

A new multivitamin cream for relieving irritation, pain and itching in a variety of skin disorders, has been announced by Hoffman-La Roche, Inc., Nutley, New Jersey. The new preparation, Tashan cream, contains in each gm, in a vanishing cream type base: Vitamin A, 10,000 U.S.P. units; vitamin D<sub>2</sub>, 1,000 U.S.P. units; vitamin E, 5 mgm.; and d-panthenol, 50 mgm.

#### Water-repellent Pesticides

Arsonosiloxanes, a new series of compounds possessing the water-repellent properties of the conventional silicones and the fungicidal and pesticidal properties of the arsenicals have been synthesised in the central research laboratories of E. F. Houghton & Co., and the American Smelting and Refining Co., New York. The compounds are expected to prove particularly suitable for use in damp locations or humid atmospheres to protect materials from deterioration due to moisture and insect attack.

#### New Use for Starch Sponge

Starch sponge, developed by U.S. Department of Agriculture chemists and already in wide use by surgeons as a hæmostatic agent, has been proposed as a carrier for medicaments for slow release within the body. That new use for the sponge has received some study by medical research workers with encouraging results. Although such medicated sponges are not yet in commercial production, the Department is

hopeful that they may be in the future. Used in block or powdered form to control bleeding, the starch need not be removed from wounds or incisions. The ability of starch sponge to disintegrate slowly, harmlessly, and completely within the body has suggested its use as a vehicle for administration of certain medicines and drugs.

#### Odour-counteracted Insecticide

The Airkem Co., Inc., New York, have introduced an insecticide, Airkem odour-counteracted. Formulated as an aerosol it is packed in a 16-oz, dispenser. The makers claim that the presence of an odour counteractant in the formulation ensures that there is no unpleasant smell after use. The U.S. Department of Agriculture has passed the formulation as being non-toxic and permitted its use in food establishments, food factories and homes. The active ingredients are pyrethrum and two synergists, piperonyl butoxide for increased action against flying insects and M.G.K. 264 (n-octyl-bicycloheptene dicarboximid) against crawling insects. The spray is claimed not to stain fabrics, paper or painted surfaces and not to corrode metals.

#### Studying Response to Drugs, Etc.

A study of the response of the body's organs to physiological and psychological factors, disease and various drugs has been started by biophysicists at the University of California Medical School, Los Angeles. A new electromagnetic method developed by Dr. Alexander Kolin of the department of biophysics, is being used. The method measures blood flow electromagnetically. The response of a body organ to a great variety of factors is characterised by changes in blood flow through the organ. Those changes, however slight, can be measured by placing the part of the body containing the artery which supplies blood to the organ in a magnetic field. Electrodes embedded in small plastic sleeves, which fit around the blood vessel, pick up electrical sig-nals induced in the moving blood. Signals are carried by wire to a recording system. The plastic sleeves can be implanted indefinitely in experimental animals. The research workers plan to make a systematic study in that manner of the responses of all body organs to many factors, including various drugs.

#### New Antibiotics

A new antibiotic, called Bryamycin, which has proved to be effective against organisms that have become resistant to other antibiotics, has been discovered by Bristol Laboratories, Inc., New York, The new drug is obtained from a microscopic organism isolated from

soil collected in Hawaii. Among the bacteria against which Bryamycin was active either in laboratory tests or animal experiments were Micrococcus pyogenes and Diplococcus pneumoniae. The new drug has been used successfully to protect mice against streptococcal as well as diplococcal infections. The mice were equally protected whether the antibiotic was given eighteen hours before or six hours after infection. In laboratory tests Bryamycin was principally active against Grampositive bacteria.

A new antibiotic, Cathomycin (novobiocin, Merck), which is claimed to be especially useful for treating infections caused by certain bacteria that have become resistant to other antibiotics, is now being distributed to physicians and hospitals by the Sharp & Dohme division of Merck & Co., Inc., Rahway, New Jersey.

#### New Use for Glycerin

A series of experiments conducted by Dr. Gerald Oster (associate professor of polymer chemistry, Polytechnic Institute, Brooklyn, New York) has revealed that glycerin has a marked influence on the reaction rates of diffusioncontrolled chemical reactions. The rate of such reactions is determined by the speed of diffusion of the reactants to-ward one another, Dr. Oster has discovered that glycerin increases the local viscosity of the reaction solution and hence influences the velocity of reaction. He found that other thickening agents, such as gelatin, polyvinyl alcohol, polyacrylamide, etc., increase only the macroscopic viscosity of the solution appreciably, and have no effect on the reaction rate. Macroscopic viscosity is the viscosity of the entire solution, while local or true viscosity refers to the viscosity of the medium immediately surrounding the molecules in solution. That possible new use of glycerin has been studied quantitatively in four reactions. The results show that increasing the glycerin content of the media markedly alters the rate of clotting of blood, the rate of polymerisation of vinyl compounds, the fluorescence of diphenyl methane dyes, and the rate of photo-bleaching of dyes. Of those discoveries, Dr. Oster considers the effect on vinyl polymerisation of most practical significance since both the rate of reaction and the molecular weight of the resultant polymer are enormously increased by the mere introduction of glycerin. In that case, he noted, the increase in viscosity caused by glycerin decreased the rate of the termination step in the polymerisation; hence, polymerisation continued and high molecular weight polymers were formed rapidly.

# Mictine

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Keeping Up-to-date

THE rapid pace of technical development must cause many busy pharmacists to look hopefully to Mr. Tomski and his paper (on "The Problem of Keeping Up-todate," to be presented at the "professional session" at Dublin) for useful hints. Like the paper on professional conduct, its text is being circulated in advance to Conference members. A bare recital of the many references available to practitioners at the present time will, however, satisfy few. Little will have been achieved if the discussions do no more than state the problem. What seems to be needed is a consideration of the possibility of co-ordinating information already available. The situation may call for the establishment of new methods designed to facilitate reference by the practitioner to a comprehensive source of information. Is such a source, if it materialises, to be a matter for individual enterprise (like the original "Squire's Companion" and "Martindale"), or should the authorities co-operate on the matter? It may be of value to see how the problem is dealt with by other professions dependent upon technical information. Is there not something to be learned, for example, from the system of law reporting which, over the centuries, has enabled the legal profession to engage in its day-to-day practice with an assurance of authority? The subject is one which provides scope for the practical-minded forward thinker, and the Conference, if it prompts any such to come forward, can be doing a great service to practising pharmacists overwhelmed by a mass of detail.

### Overseas Trade in July

UNITED Kingdom export of drugs, medicines and medicinal preparations in July at £2,931,210 were slightly below the average monthly value for 1956. Once again India with purchases valued at £242,609 was the biggest outlet followed by Australia at £209,520. The effect of the dispute with Egypt over the Suez Canal has not had time to be reflected in the July trade figures. In 1955 that country bought medicinal products from the United Kingdom to the value of £1.1 millions, whilst for July the value was £71,000 bringing the total for 1956, so far, to £598,000. Exports to the United States show an encouraging rise to £606,000 in the first seven months of 1956 from £314,679 in the same period of 1955. Purchases by China also showed an improvement on the previous July (£90,000 against £66,000), but that country's purchases for 1956 at £307,683 fall short of those in the same period of 1955 (£571,000). Of the major items for which export values are available the majority follow the pattern set in previous months. Penicillin products for the second month in succession were at their highest value for a considerable time and almost equalled the value of "other antibiotics."

On the import side the value of drugs and prepared medicines rose to £637,845 or £10,000 more than in June. Proprietary medicines at £77,108 were the highest for any month this year.

July overseas trade, as a whole, was lower on both sides of the account than in the two preceding months. The country's total imports at £320·1 millions reversed the upward movement which occurred in June (£340 millions) from the average level of just under £330 millions a month in the earliest part of the year. The July figure was 3 per cent. lower than the first half-year average and 1 per cent. below the average for the year 1955. Total exports in July were valued at £266·2 millions and with re-exports at £9·8 millions the visible trade deficit (imports valued c.i.f., exports and re-exports valued f.o.b.), was £44·1 millions. A selection of the July statistics is given below.

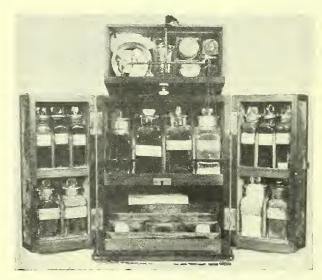
	EXPO	RTS				VALUE
Drugs, medic	cines, m	edicin	al pr	eparat	ions	£
(total)						2,931,210
Vitamins	•••					225,391
Penicillin sa					)	130,086
Penicillin in						89,079
Penicillin ta						61,174
Antibiotics						293,429
Ouinine						16,484
Alkaloids, e						65,104
Aspirin		14	•			70,077
Antihistamir						46,525
Antipaludics						87,219
Barbiturates		•••	•••			43,257
Liver extrac	4	•••	•••			17,128
Ointments a		nts	•••	•••		105,850
Insulin	ard minut	4113	•••	•••		31,060
Sulphonami	dec	• • •		• • •		141,361
Proprietary		,	• • • •		• • • •	836,444
Unclassified			•••	• • •	••••	637,475
	•••	•••	•••	•••		35,716
Glycerin	•••	•••	•••	•••		16,736
Acetone	•••	•••	•••	•••	• • • •	23,593
Citric acid	•••	• • •	• • •	• • •	•	25,557
Salicylates		•••		• • • •		23,331
Perfumery and						242.160
Lipstick, fac	-	, etc.	•••	•••	• • • •	243,159
Dentifrices	•••	•••	• • •	•••	• • • •	179,141
Toilet soaps	•••	•••	•••	•••	• • • •	183,985
Synthetic dete	ergents	• • •	•••	• • •	••••	510,134
	IMPO	RTS				VALUE
						£
Vitamins						88,295
Antibiotics						88,510
Alkaloids						49,329
Proprietary n						77,108
Unclassified						334,603
Borax, refined	d					70,487
Borax, refined	d					
Iodine						70,487 4,334
Iodiné						70,487
Iodine Menthol Essential oils						70,487 4,334 28,136
Menthol Essential oils Bergamot	•••					70,487 4,334 28,136 2,834
Iodine Menthol Essential oils Bergamot Citronella						70,487 4,334 28,136 2,834 21,988
Iodine Menthol Essential oils Bergamot Citronella Clove						70,487 4,334 28,136 2,834 21,988 15,852
Iodine Menthol Essential oils Bergamot Citronella Clove Geranium						70,487 4,334 28,136 2,834 21,988 15,852 15,256
Iodine Menthol Essential oils Bergamot Citronella Clove Geranium Lavender						70,487 4,334 28,136 2,834 21,988 15,852 15,256 3,945
Iodine Menthol Essential oils Bergamot Citronella Clove Geranium Lavender Lemon						70,487 4,334 28,136 2,834 21,988 15,852 15,256 3,945 47,652
Iodine Menthol Essential oils Bergamot Citronella Clove Geranium Lavender Lemon Orange						70,487 4,334 28,136 2,834 21,988 15,852 15,256 3,945 47,652 10,344
Iodine Menthol Essential oils Bergamot Citronella Clove Geranium Lavender Lemon						70,487 4,334 28,136 2,834 21,988 15,852 15,256 3,945 47,652

# Onward from Galen A CURRENT CAUSERIE

BRITISH pharmacists may have found difficulty in identifying the man portrayed in the reproduction of the United States stamp issued to mark the fiftieth anniversary of the passing of the (Federal) Pure Food and Drugs Act (see C. & D., August 18, p. 159). To American pharmacists, however, the name of Dr. Harvey W. Wiley, is synonymous with drug law standardisation. In 1883, Dr. Wiley became chief chemist of the U.S. Department of Agriculture. At that time most states had "pure food and drug laws" of their own. Dr. Wiley became convinced that a Federal law was necessary. However, his campaign took twenty-three years before fruition, during which period more than 100 Bills were introduced in Congress. President Theodore Roosevelt signed the U.S. Food and Drug Act on June 30, 1906. Records indicate that one of the first results of the 1906 Act was a change-over from the use of the words "cure" in advertisements to "remedy" or "treatment."

ONE of the first to teach pharmacognosy as a special pharmaceutical science, Ernst Wilhelm Martius was born two hundred years ago on September 10, 1756, at Weissenstadt in the German Fichtel Mountains. He obtained the Ph.D. of Erlangen University in 1812 and the M.D. seven years later. From 1791 to 1824 he was the owner of the "Court and University Pharmacy," at Erlangen and at the same time professor in the University. He died on December 12, 1849. A voluminous author, he wrote on wine and its adulteration, on a method of preparing antimony soap, on oil of cajuput, and on the arsenic content of sulphuric acid. His autobiography, published by him at the age of ninety (Erinmerungen aus meinem neunzigjährigen Leben), contains many interesting descriptions of pharmaceutical life in Germany. The poet Goethe, in his diary, refers to Martius as the teacher of the two younger sons of the pharmacist Wolfgang Caspar Fikentscher "in the art of pharmacy." In August 1822 Fikentscher succeeded in preparing the ground-glass tablets required for Goethe's experiments on the nature of colours. Martius's son Carl Friedrich von Martius achieved fame as the leading member of a scientific expedition to Brazil.

AFTER seeing the illustrations of the two medicine chests belonging to Mr. Adcock of Alcester (see C. & D., August 25, p. 196), Mr. S. R. Wicks, M.P.S., Bideford, Devon, sent

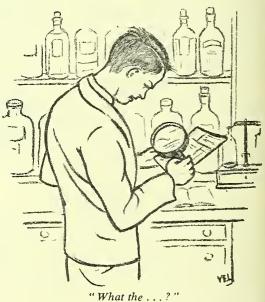


us some photographs of a mahogany box of his own. One is reproduced here. The box contains hand-made bottles

with their original contents, including elixir of vitriol, Goulard's extract, blistering plaister, and spermaceti ointment. The chamois leather pieces which were on the stoppers are still in the box. The drawer has an inner tray which lifts out. Brass scales and weights, glass mortar and pestle, and glass measure are all complete. The interior is covered with red velvet-type material.

THE French chemist Charles Frédéric Gerhardt, who died at Strasbourg a century ago (on August 19, 1856) at the early age of forty, is known in medicine for his discovery of acetanilide and of acetylsalicylic acid, subsequently introduced into therapeutics as antifebrin and aspirin respectively. He also did important work on the chemical nature of the alkaloids. That term had orginally been applied to any organic base which forms salts with acids, but Gerhardt in 1844 restricted its use to bases of vegetable origin which have pharmacological or toxicological effects. By distilling the alkaloid cinchonine with solid caustic potash he obtained an oil which he called "quinoleine" and which was shown by A. W. von Hofmann to be identical with a compound separated by F. F. Runge, Breslau, from coal-tar. Gerhardt, the son of a manufacturer of white-lead, was born at Strasbourg on August 21, 1816, and studied chemistry at Giessen under the great Liebig. After working with Jean Baptiste Dumas in Paris, he was appointed to the chair of chemistry at Montpellier, France, in 1844, but resigned in 1848 to return to Paris. There he opened a private laboratory for instruction in chemistry. In 1855, the year before his death, he was made professor of chemistry and pharmacy in his native town.

#### A LOCUM'S LIFE



A PHARMACIST'S ANTHOLOGY

#### AN EMOLLIENT GLYSTER

From The Adventures of Roderick Random, by Tobias Smollett.

I MADE shift to get home, where I was informed of Captain Gawky's being robb'd and abused by a company of footpads; and was ordered by my master to prepare an emollient glyster and paregorick draught, in order to allay and compose the ferment of his spirit, occasioned by the barbarous treatment he had undergone, while he took twelve ounces of blood from him immediately.

# PHARMACY BACHELOR AND FACTORY MAID

By a "Work-Director"

F my title leads the reader to expect a romantic tale, he is going to be disappointed. The juxtaposition is not mine. It derives from a pronouncement, getting on for two years ago, by Dr. H. Davis when he addressed a gathering of South-west Metropolitan hospital pharmacists. Referring to the performing of elementary duties by pharmacists, he said (C. & D., January 22, 1955, p. 91) "Students did not get the impression that the pharmacist was a good professional man when he was doing routine dispensing. It was not dangerous to give such work to an assistant. In many factories one could see girls doing routine work far more satisfactorily than it could ever be done by any Bachelor of Pharmacy."

Duties Extra to Training

I was again reminded of these words when I read the memorandum on the control of Dangerous Drugs in hospitals, published jointly by the Pharmaceutical Society and the Guild of Public Pharmacists (C. & D., January 14, p. 31). It is, of course, proper for the Society to seek to secure to the pharmacist the work for which he has been trained and given his diploma. But some of the recommendations in that memorandum seem to involve the pharmacist in a good deal of organisational and even clerical work and duties other than those requiring the manipulative skill and expert knowledge acquired in the course of pharmaceutical training.

For some years the Pharmaceutical Society's Council has sought to raise educational standards for future pharmacists, and the recent report of the Education Committee sets out the scientific subjects of which the student must possess an adequate knowledge before entering upon the course for the Pharmaceutical Chemist Qualifying examination (C. & D., April 21, p. 301). At the moment, however, I am more concerned with the delegation of work by a pharmacist proprietor of a retail pharmacy, or the actual conduct of a hospital dispensary, than with the administrative duties that may fall to the lot of a chief pharmacist in a

hospital.

Owing to shortage of properly trained and qualified staff—or the reluctance of young pharmacists to accept jobs anywhere else but in Industry—it is necessary to make the most of every man's work and to use unqualified people to capacity, so that any qualified man's services may be employed in the proper sphere, and so as to enable the proprietor to give proper attention to all sections of his business and not confine his activities wholly to the

dispensary.

No commercially minded employer of labour would employ a graduate scientist on work that could be done by ordinary-grade factory hands. Indeed, the excess knowledge and training carried by the scientist might even handicap him for doing the elementary job, whereas the girl employed on simple repetitive work acquires a facility of manipulation, and a capacity for production, that make her far more valuable for the particular job than any highly trained and qualified operator would be.

When only a few people are employed, however, it is a matter of some difficulty to arrange for work to be specialised. To plan work and divide work into stages can only be done economically when the mass of work is considerable and the people employed are fairly numerous. Even so, in a large and busy shop dispensary work can generally be found for a qualified dispenser and an unqualified assistant, and the duties can be divided. The details of work cannot quite be reduced to elementary operations, as in a large factory where packed products are

coming off the production line at the rate of X per minute. It has frequently been suggested that technical assistants can be employed in hospital dispensing departments, and with modifications the same may be true of the retail dis-pensary. In Victorian days the cook in any large house had a kitchen maid to beat up an egg, measure or weigh ingredients, clear away utensils after use, and to fetch and carry generally. Mutatis mutandis, that is the sort of job that awaits the unqualified assistant at a dispensing counter: to mix a bulk powder, fill a stock bottle, write labels and find and have ready prescribed appliances or proprietary stocks. The qualified man, meanwhile, will be doing the important compounding, handling especially all poisons, checking finally all filled prescriptions and accepting responsibility for all work done. A very pertinent question here, in view of the remarks quoted at the beginning of this article is "What is routine dispensing?" or even "Should the dispensing of any prescription be considered as routine work?"

I must confess that were I the pharmacist in charge of either a hospital pharmaceutical department or a busy shop dispensary I would not be happy in mind to allow any unqualified helper to handle poisons or potent drugs unchecked. Yet reports on the National Health Service testing scheme considered by various Executive Councils reveal that prescriptions in too many instances are dispensed by unqualified persons without adequate supervision by the qualified manager or proprietor. The question, I consider, is largely one of experience, observation and concentration on the job in hand.

Large employers of labour, such as factory managers, accept the theory that certain types of employee are more prone to accidents than the general run of their fellow workers, and most pharmacists of any experience will know that there are a certain class who are error-prone. One is inclined to judge the gravity of an error by its results rather than by its character, yet an error is an error whether its results are negligible or disastrous.

#### Relative Values

A bank clerk who hands out £100 on a £10 cheque would be considered more culpable than if he had given ninepence for tenpence. At the dispensary counter the inadvertent substitution of tinct, calumb, for inf. gent. co. conc. might not be thought quite so deplorable a lapse as if tinct, nuc, vom, had been used. But in pharmacy if the assistant is likely to dispense tinct, calumb, for inf. gent, one day, he is just as likely to use tinct, nuc, vom, the next and therefore at no time is he so dependable as a colleague who is uniformly careful.

Supervision is an easy thing to talk about but most difficult to carry out in practice. Unless one is going to overlook and check every action of the unqualified assistant, one must place a great deal of reliance on him. That can only be done safely after considerable experience of working side by side with him, noting his approach to the job, his method of handling it and the qualities he displays while doing it, and summarising his capabilities. By taking a good deal of trouble to do that at the outset, later, the pharmacist can relax his vigilance by degrees, giving the unqualified person more freedom of action, and exercising only that amount of supervision that keeps him up to standard and satisfies one's own requirements. If, after gaining experience, the helper then concentrates on the job, he will—like the factory maid—gain that facility that will make him a consistently good worker.

There has been much talk of examining and registering

unqualified assistants, but the dangers inherent in that procedure are well known. If it should ever come about I do not think the conscientious employer—failing evidence of practical experience—will accept paper qualifications at face value, even though they may be backed by the Pharmaceutical Society.

The cautious proprietor will wish to prove for himself the ability and competence of any new assistant. But there is a danger that the not-so-careful employer may rely too much on the certificate of an examining body that a person he engages has been trained and accepted as competent to carry out certain duties in a dispensary under supervision. He may be tempted by the official seal to relax the very degree of vigilance that he is expected to exercise.

Even with newly engaged qualified assistants there is need for the proprietor to satisfy himself as to ability; for the apparent shortage of qualified pharmacists willing to undertake retail or hospital work puts a premium on the services of any qualified man, whatever his age or experience. I am rather troubled myself about the appointment, on occasion, of young newly qualified men as managers of busy shops when they have only spent a minimum number of years in training and lack the experience required to deal with any unusual difficulties that present themselves.

In earlier days the newly qualified man, even if in a position to launch out forthwith as proprietor, was advised

by his older colleagues to spend a few years as assistant in several different businesses in order to gain the knowledge and experience generally considered essential to enable one to conduct successfully one's own business.

I consider that too much time is now spent by the qualified proprietor at his dispensing counter. N.H.S. contract work constitutes only about one-third of the total business transacted in the average pharmacy. The proprietor should give more of his time to front-counter business and arrange, if possible, for routine duties to be undertaken by a carefully trained and selected assistant. In terms of payment, the Ministry of Health does not allow for the full-time employment of a qualified man to deal personally with all prescriptions nor do they always appear to expect it.

Were every proprietor and contracting pharmacist to make a careful study of the needs and opportunities of his own business, and take time to make the necessary adjustments and rearrangements in his staffing plan, the majority would find they could delegate much of their present-day N.H.S. prescription work to assistants whom they have hand-picked for the job. They could in that way get back to the position where patrons of the establishment saw the proprietor when they called, and where the two-thirds non-dispensing portion of the business transacted claimed its fair share of the proprietor's personal attention.

# MEDICAL ABSTRACTS

#### ORAL TREATMENT OF DIABETES

CLINICAL trials of a new oral hypoglycemic agent, BZ 55 (sulphanilyl-n-butylurea), are reported by various authors (British Medical Journal, 1956. 2. 433-454).

Duncan, Baird, and Dunlop found the drug to be an effective substitute for insulin in thirty-three out of fifty-five middle-aged or elderly diabetic patients, but the drug was without effect on ketosis or on those patients who readily developed ketosis. The authors emphasise the difficulties in selecting a responsive patient and the dangers of withdrawing insulin in the unresponsive patient. It is concluded that maintenance treatment with BZ 55 must be continuous and not intermittent. Minor toxic effects were encountered in certain patients and there appeared to be considerable danger of thrombocytopenia. The authors advise that BZ 55 should not be given as a substitute for dietary restriction.

In a group of forty-five diabetics studied by Wolff, Stewart, Crowley, and Bloom, those in whom the drug was successful often had a history of diminishing insulin requirements. In no instance was the fasting blood sugar level greater than 275 mgm. per 100 mils and the fasting range was from 123–275 mgm. per 100 mils. Diabetics in whom the drug failed, tended to have a higher insulin requirement than the previous group. The fasting blood sugars ranged from 123–421 mgm. per 100 mils and there was a tendency to acetonuria. The authors found that the drug did not exert any influence over the post-prandial rise in blood sugars in either the successes or the failures. There was no difference in levels between free and conjugated sulphonamides in the blood between successes and failures. In the urine there was more excretion of conjugated sulphonamides in the failed cases than in the successful ones. 11 per cent. of the patients developed skin reactions due to the drug.

In a series of twenty-one patients studied by Hunt, Oakley, and Lawrence, the response to BZ 55 was recorded as good, moderate, or no response, according to whether the glycosuria disappeared completely, was reduced in amount, or was unaffected. In nine cases the response was good, in six moderate, and in six there was no response. The factors most consistently related to responsiveness to BZ 55 were the age at onset of diabetes and absence of more than minimal ketonuria while on dietary control without insulin. A second series of seventeen patients was selected on those criteria. In that group there was a good or moderate response to the drug in every case. Toxic re-

actions noted were giddiness, skin rashes, and in one case a typical sulphonamide drug fever.

Results are reported by McKenzie, Marshall, Stowers, and Hunter, of a clinical trial of BZ 55 on twenty diabetic patients, fourteen of whom were in hospital. Ten mild diabetics not satisfactorily controlled by diet alone were studied under basic conditions and then on BZ 55 therapy and the same diet. Three out-patients were studied similarly. A further three patients who required insulin to prevent ketosis were studied in hospital when taking insulin and when taking BZ 55 in addition, the diet remaining constant. Four patients were given BZ 55 simply as a therapeutic agent and the effects judged by relief of symptoms and the results of qualitative tests for urinary sugar. In the first group of ten milder diabetics, BZ 55 had a normalising effect on the fasting blood sugar levels. The higher the initial fasting blood sugar, the greater was the hypoglycæmic effect of the drug. The four receiving BZ 55 in addition to insulin had better control than when receiving insulin only. BZ 55 was not found to increase the effectiveness of the peripheral action of insulin.

A preliminary account is given by Walker, Leese, and Nabarro, of the treatment with BZ 55 of twenty-four stable middle-aged diabetics. Satisfactory reduction of the blood sugar was obtained in twenty-three, but two had to be taken off the drug because of a generalised rash. One patient, after a poor response to treatment, developed a severe neutropenia.

A trial by Murray and Wang of BZ 55 in twenty-five diabetic patients is reported. In twenty-three of them, all over forty-five when they developed diabetes, very successful control of hyperglycemia and glycosuria was obtained in eleven. The remaining twelve failed to respond satisfactorily. In two younger patients the drug proved completely ineffective. It was also ineffective in two patients while they were suffering from sepsis, but produced considerable effect when that was overcome. The authors note that in that trial all patients who showed no response had previously received insulin. They suggest that ketosis may develop rapidly on the substitution of BZ 55 for insulir in patients who require insulin for their control.

The British Medical Journal adds a warning that, ir

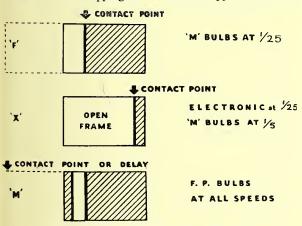
The British Medical Journal adds a warning that, ir view of a recent report from America of a small number of cases of severe agranulocytosis and also of several cases of thrombocytopenia in Britain, the authors of the above papers consider that BZ 55 should at present be used only under careful hospital supervision.

# ARTIFICIAL - LIGHT PHOTOGRAPHY 6. Focal Plane Shutters

NUMBER of cameras incorporate the focal-plane type of shutter instead of the blade type which operates near or between the lens components. focal-plane shutter works on the "roller-blind" principle, and operates in the plane of, and as close as possible to, the film. Hence the name. The lens, therefore, is always "open," which allows for rapid interchange and reflex focusing, and the sensitive material is obscured by the blind. The shutter usually consists of two separate blinds which are wound up on to a spring-loaded roller. The blinds are separated to form a slit, and when the shutter is fired the slit passes rapidly over the negative material, exposing it to the image formed by the camera lens. By adjusting the width of the slit and the spring tension of the rollers, different exposure times are provided, and shutter speeds as high as 1/1000 second can be obtained. The second, or capping, blind closes the slit while the shutter is being wound up, and the subsequent separation is made according to the shutter setting.

#### Synchronisation

With focal-plane shutters synchronisation takes the form of an electrical contact which is closed during the movement of the first blind, and the type of synchronisation is determined by the position of the blind at contact. A common type, which corresponds to F-type blade synchronisation, makes contact when the first blind is about a third of the way across the frame. As it takes time for class-M flash-bulbs to give useful light, the blind separation must be such that the capping blind does not appear too soon.



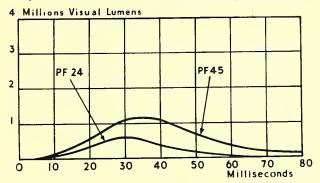
Types of synchronisation with focal-plane shutters.

The shutter speed is usually limited to 1/25 second or longer. A few models make contact before the slit reaches the frame, in that way introducing the necessary delay for faster shutter speeds, similar to M-type blade shutters.

A long-duration flash, depending on the size of the negative and the speed of travel of the blinds, is required. It is provided by class-FP flash-bulbs which have a compara-

tively long duration above half peak. Miniature cameras synchronised in that way, such as the Leica If, III, IIII and M3, may also be used with the PF60, which has a sufficiently long duration for their shutters.

In many of the F-synchronised focal-plane shutters another set of contacts is provided for electronic flash. They make contact when the first blind completes its travel



Time/light curves for class-FP flash-bulbs.

and, with the shutter set at 1/25 second, the frame is completely uncovered at contact. The contacts may also be used for class-M flash-bulbs provided the shutter is set to 1/10 second or longer, and produces the effect of automatic open flash. The duration of the small flash-bulb is sufficient to arrest normal camera or subject movement, making the method a good one for obtaining full light output from small cheaper flash-bulbs. It is particularly effective with colour.

#### Colour Photography

Successful colour photography is now within the scope of most amateurs. Colour film is still relatively slow and affected by small variations in colour temperature or exposure. The constant, high-intensity light of known colour temperature from a flash-bulb makes it the ideal source for colour film. When a single flash-bulb is being used it is best to place it immediately above the lens axis, and to get the whole of the subject matter at about the same distance from the flash.

#### Reversal Colour Materials

From reversal colour materials a direct positive transparency is produced. They are available as daylight type, balanced for 5500°K, and as artificial types balanced for 3200°K (photopearl lamps) or 3400°K (photoflood lamps). With daylight-type reversal film the blue/97 flash-bulbs are used. Type-A reversal film may be used with clear flash-bulbs providing the light (3800°K) is corrected by a filter over the camera lens, such as the Wratten 81C or Ilford 171. That combination is the most efficient as it produces higher guide numbers than the blue/97 flash-bulbs used with daylight film.

	Speed	Index			Open flash a	and speeds to 1	/25 second	
BS° 21 23 25 27	ASA 10 16 25 40	DIN 12/10 14/10 16/10 18/10	Sch° 22 24 26 28	PF1/97 30 35 45 60	PF25/97 45 55 70 90	PF1 35 45 55 70	PF14 45 55 70 90	PF25 55 70 90 110

#### Negative Colour Materials

From negative colour materials is produced a negative in complementary colours. From it positive prints can be made. The materials have a greater exposure tolerance than reversal types and allow for considerable colour correction at the positive stage. For that reason type-A negative material may be used with clear flash-bulbs without

filter, and the daylight type with clear or blue flash-bulbs. A mixture of different light sources cannot be corrected.

The type of reflector used on the flash-gun has a considerable effect on exposure. The following guide numbers are based on an average 4—5-in, satin-finish reflector. The correction filter for clear flash-bulbs with reversal-type A does not affect the exposures by more than 1/3 stop, and may be ignored.

# A History of Pharmacy at Bristol Infirmary: 3 THE APOTHECARIES AND THEIR APPRENTICES

By Laurence Dopson

N a reference to a body-snatching episode in 1806 mention was made to the "Apothecary's shopman, alias Laboratory Man." In 1815 the then Apothecary (James Bedingfield) complained to the committee of the great amount of work in the shop, and suggested that a fourth apprentice should be taken on to cope with it.

#### Duties of the Apothecary

The duties of the Apothecary were set out in the rules of the Infirmary, 1835–70, as follows:—

HOUSE APOTHECARY

I. THAT the qualification of an Apothecary to the Infirmary be his having served at least five years regular apprenticeship to an Apothecary, and being two years afterwards in the business.

II. That no Apothecary be chosen to serve this Society, without giving satisfactory assurance that he will continue

in the service at least for five years.

III. That the salary of the Apothecary be eighty Pounds a year, and at the end thereof that he be entitled to a gratuity, if he conduct himself to the satisfaction of the Society.

IV. That he do not practise as an Apothecary out of the house, or attend any other business than that of the Infirmary; or sell or give any Medicines or Leeches, unless as he is directed by the Physicians and Surgeons.

V. That he fix a ticket over each bed, specifying the Name of the patient, the date of admission, the Physician and Surgeon who admitted him, and also the diet prescribed, of which he shall give an account to the Matron.

VI. That he visit the wards every morning before ten o'clock, and be ready to report the state of the patients to the Physicians and Surgeons, and that he keep a diary of all extraordinary cases when required, and that he cause the Medicines to be made up and delivered according to the directions of the Physicians and Surgeons.

VII. That he be in waiting during the time the Committee, or General or Quarterly Boards meet, and be ready to lay before them such books and papers as they shall

require.

- VIII. That he never be absent from the Infirmary at the time when the Physicians and Surgeons choose to attend; nor at any time for more than two hours without leave of the Physician of the week, and that he never be absent at all, without acquainting the Matron where he is to be met with.
  - IX. That the Apothecary and Matron never be absent from the Infirmary at the same time, unless the business of the Society absolutely require it.
  - X. That he send a written summons to the Physician and Surgeon on the Saturday preceding the week when they are to attend; and that he, or in his absence, his senior Apprentice, send, on the admission of every casualty, a note to the Surgeon of the week, importing the nature and state of the case, and in very material cases a similar information to all the Surgeons.
  - XI. That he keep a register, in which are to be entered

the names of the patients taken in, the parish they belong to, their age and distemper, by whom recommended, when admitted, when dismissed, and in what state, and a similar register for the out-patients.

XII. That he write down the names of the patients to be at any time discharged, and shew them to the Physician or Surgeon to whom they belong; and that no patient be discharged without their consent, except as directed by the over-time rule.

XIII. That he take care (when directed by either of the Surgeons) to have the house instruments repaired, and see that they be returned as soon as possible, and replaced in their respective cases in the operation-room, for which purpose he shall be put in possession of a key.

XIV. That he suffer no gaming, dressing of hair, or any thing else to be done in the shop besides what relates merely to the business of that place; that he take care that the shop utensils and medicines be not spoiled. wasted or embezzled; and that in this case he make application to the Committee, or on any emergency to the Physician or Surgeon of the week, to have them replaced.

The last rule was not inserted without cause. One apothecary, James Bingham Borlase, son of the famous antiquary. the Rev. William Borlase, Vicar of Ludgvan, Cornwall. kept pointers in the "Elaboratory" as the Dispensary was called in the late eighteenth century. His card games with apprentices once involved him in a stand-up fight with the senior apprentice. But what finally caused him hastily to resign his appointment in 1779 was that he was caught returning after hours from a visit to a "friend" who, it was ascertained, was anything but respectable. Another acting apothecary kept fighting cocks, presumably in the Dispensary.

In 1833 the title of Apothecary at the Infirmary was changed to that of House Surgeon and Apothecary. It was a recognition of a change which had already taken place in practice. In 1843 the two offices were separated.

What sort of men were the old apothecaries? Smith's History gives vivid pictures of them. Joseph Shapland, for instance, apprenticed at the age of twelve, was resident apothecary at nineteen, and a widower at fifty-five. One of his patients, a widow of a dissenting minister, told him to read Samuel II, chapter 12, verse 7. He took the hint and married her. "In Bristol the apothecaries were in a very flourishing condition in the eighteenth century," states Smith. Shapland, after he set up practice on his own, soon became so successful that in 1775 he took William Broderip into partnership. In the early part of the nineteenth century Broderip is said to have earned £4,500 a year.

#### First Apprentice

It has already been seen that apothecaries' apprentices were as essential to the running of the departments as are

student nurses in the wards today. The first apprentice was appointed as "a servant in the nature of an apprentice." He was the Joseph Shapland who later himself became an apothecary, and his indenture is dated 10 March 1740. Students of all kinds naturally make for a certain liveliness. In 1776 there was open war between the apothecary's apprentices and the surgeon's apprentices. It involved scuffles in the hospital corridors. In 1768 it was reported that an apprentice was wont "to come to the House in a gold-laced hat and wore a sword." The surgeons objected to the sword, and he had to leave it off. Mrs. Preece, the matron who died in 1790, left all her belongings to the Infirmary. The sale was held in the committee room, whose floor the apprentices had previously sprinkled with powdered hellebore and various other drugs, so that "when the company began to assemble they were-auctioneers and all-set sneezing in such a manner that they were obliged to leave the room." In May 1824 certain apprentices (of the surgeons this time) denied "that they threw lighted tow from the [Apothecary's] Shop into Earl Street."

The following are the directions for the Apothecary's Apprentices in the Rules of the Infirmary, 1835-70:

#### APOTHECARY'S APPRENTICES

- I. THAT no Apprentice to the Apothecary be admitted for a less term than seven years; for the due performance of the contract, his parent or guardian shall give bond security to the Society at the time of his being elected, in default of which such election shall be null and void, and the Candidate rendered inadmissible.
- II. That every Apprentice upon his admission shall pay to the Society 100 Guineas as a consideration for boarding and lodging, and also 20 Guineas per ann. for the first five years or for as many of those five years as the apprentice shall live, and 30 Guineas (previous to his admission) to the Apothecary as a gratuity for his instruction.
- III. That all the Apprentices be not absent at any one time on any account whatever; that none of them be absent at any time without the express permission of the Apothecary, nor after ten o'clock in the evening, nor all night unless upon some very extraordinary occasion. That one Apprentice be constantly in the shop to give answers to such persons as may have business there, and to see that not any of the things entrusted to his care be taken away improperly.
- IV. That the junior Apprentice take care that the Surgeon's dressing boxes be cleaned after each time of their being used, and that they be replenished with tow, ointment, &c. and carried into the Surgery every morning before ten o'clock.
- V. That they be diligent and attentive in dispensing the medicines prescribed, and in preparing such compounds, &c. as may be directed; that they dismiss the outpatients with all possible expedition, and in all other respects be subservient to the rules of the Society.
- VI. That the Apothecary's Apprentices behave at all times obediently to the direction of the Physicians, Surgeons, Apothecary, and Matron; with becoming attention to the sick and respect to the Society in general; that they observe good order and decorum in the shop, and in every part of the house
- VII. That every medicine which is dispensed have the name of the patient and the manner of using it affixed to the phial, pot, &c. containing it, and that those directions shall be continued however frequently the medicine be repeated.

#### PENALTIES

1st. That in cases of great indecency or rudeness towards the patients, nurses, or any of the persons in the employment of the house, or neglect of attention to any of the patients, on such charges being substantiated before the Committee, the Apothecary be enjoined to take the offender or offenders, agreeably to the law, before two Justices to receive on conviction such punishment as such Justices may think fit.

2d. That for inferior offences they be taken before the



Mary Ann Burdock, poisoner.

Committee and strongly admonished, or punished, as circumstances may appear to the Committee to require. 3d. That for impertinent behaviour in either of the Apprentices towards the Physicians, Surgeons, or Matron, complaint having been first made to the Apothecary for his interference, and no satisfactory redress obtained, the complaint shall be brought to the Committee, who for the first offence shall admonish the offender; for the second shall direct that he be excluded from the operation-room for a month, and during that time be restricted from leaving the house; and for the third he shall be subject to such punishment as the Committee may think proper to inflict, or to be taken by the Apothecary before the Magistrates, at their discretion.

VIII. That previous to any Apprentice being taken, his name shall be entered in the minute book by the Committee at least one month before, to give time for enquiry, and he shall not be articled till he has resided in the Infirmary for two months, when, if all parties approve, he shall be bound to the House Apothecary for the time being (but liable to serve any other Apothecary that may be chosen in case of vacancy) for a term of not less than seven years.

In the early nineteenth century it became recognised that the apprenticeship system alone was not sufficient for the training of doctors. Gradually there evolved the Bristol Medical School. Out of it, though not without birth pains, grew Bristol University College. Now Bristol has a University of its own, with a medical faculty.

At Bristol Medical School the lecturer in forensic medicine for thirty-six years, until his death in 1868, was William Herepath. In 1834 Herepath conducted a postmortem examination of a lady who had died fourteen months previously at 17 Trinity Street. The body was exhumed because it was observed that Mrs. Mary Ann Burdock, with whom she had been lodging at the time of her death, had become much wealthier since the old lady's decease. The internal organs were taken to the Medical School, where Herepath demonstrated the presence of large quantities of yellow arsenic. Mrs. Burdock was duly executed at the gaol in the New Cut. For the occasion (since executions were then in public) she wore a very expensive black silk dress. Herepath's son, William Bird Herepath, became a distinguished chemist; he was made a Fellow of the Royal Society for his researches, especially on the polarising properties of quinine salts.

#### WILLS

MR. W. G. BARKER, M.P.S., 299 Linthorpe Road, Middlesbrough, left £13,270 (£12,775 net).

Mr. L. Birkby, M.P.S., 19 Seaborn Road, Morecambe, Lancs, left £3,255 (£3,213 net).

Mr. C. G. Bonner, M.P.S., 28 Methuen Road, Bournemouth, left £12,896 (£12,696 net).

MR. J. H. BROOKES, The Beeches, Tansley, Derbys, who qualified as a chemist and druggist in 1893, left £12,128 (£8,410 net).

MR, T. CAIRNS, M.P.S., Highfield, Mottram Old Road, Stalybridge, Ches, left £7,077 (£7,021 net).

Mr. G. G. COBB, M.P.S., 46 Claremont Road, Southport, Lancs, left £7,824 (£7,515 net).

MR, W. Costigan, M.P.S., 2 Seacombe Avenue, Cullercoats, Northumberland, left £5,695 (£5,608 net).

Mr. G. COWARD, M.P.S., 453 Caledonian Road, London, N.7, left £451 (£403 net).

MR, W. B. DICKIE, M.P.S., The Ayr Pharmacy, 6 Alloway Street, Ayr, left personal estate in England and Scotland valued at £21,482.

MR. G. S. DURRANT, 3 West Street, Hertford, who qualified as a chemist and druggist in 1897, left £5,837 (£4,800 net)

Mr. S. B. EASON, M.P.S., 81 Tudor Road, Cardiff, left £3,146 (£2,979 net).

MR, H. EMMETT, M.P.S., 71 High Street, Brockmoor, Brierley Hill, Staffs, left £3,677 (£3,629 net).

Mr. F. E. FARR, M.P.S., 10 Puddingcake Lane, Uckfield, Sussex, left £3,183 (£2,931 net).

MR, J. J. FLANAGAN, M.P.S.I., Main Street, Buttevant, co. Cork, left estate in England and Republic of Ireland valued at £20,096.

Mr. F. H. GOODMAN, M.P.S., 24 The Hollow, Mickleover, Derbys, left £780 (£743 net).

MR. C. K. GREGORY, M.P.S., 39 Cambray Court, Cheltenham, Glos (former chairman and managing director, United Chemists' Association, Ltd.), left £10,054 (£9,848 net).

MR. C. E. Harrod, M.P.S., 207 New King's Road, Fulham, London, S.W.6, left £6,424 (£6,348 net).

MR. T. H. HARTLEY, M.P.S., Brereton, Reedley Drive, Reedley, Lanes, left £10,312 (£10,221 net).

Mr. B. Jamieson, M.P.S., 9 Girdlers Road, London, W.14, left £740 (£700 net).

Mr. J. H. LARRAD, M.P.S., 79 Nottingham Road, Loughborough, Leics, left £3,786 (£2,767 net).

MR. J. R. W. MAXWELL, 27 Buckstone Gardens, Edinburgh (former director and chief engineer, Nobel Division, Imperial Chemical Industries, Ltd.), left personal estate in England and Scotland valued at £21,018.

Mr. C. H. MILBURN, M.P.S., 24 High Street, Wetherby, Yorks, left £3,037 (£2,990 net).

MR, J. P. L. D. NOWELL, M.P.S., 2 Colburn Avenue, Hatch End, Middlesex, formerly of 25 Park Parade, Harlesden, London, N.W.10, left £5,676 (£5,550 net).

Mr. H. G. ROBERTS, M.P.S., 273 Woodchurch Road, Birkenhead, Ches, left £323.

Mr. R. T. Robson, M.P.S., 53 Oakfield Road, Lobley Hill, Gateshead, co. Durham, left £1,253 (£1,192 net).

Mr. G. SHEARLS, M.P.S., 6A St. Aubyns Mansions, Kings Esplanade, Hove, Sussex, left £9,737 (£3,552 net).

Mr. W. L. I. SHORE, M.P.S., 509 Christchurch Road, Boscombe, Hants, left £1,360 (£1,308 net).

Mr. H. SMITH, M.P.S., 23 York Drive, Grappenhall, Ches, left £23,532 (£23,373 net).

MR, P. C. G. STILES, M.P.S., 1 The Square, Market Harborough, Leics, left £20,533 (£20,494 net).

MISS J. A. THOMSON, M.P.S., of Pinetrees, Campfield, Glassil, Aberdeens, left personal estate in England, Scotland, Northern Ireland and abroad valued at £9,221.

MAJOR E. A. WIMBERLEY, 2 Holland Park, London, W.11 (chief engineer, A. Boake, Roberts & Co., Ltd.), left £5,201 (£4,938 net).

### GUIDE TO NEW MEDICAMENTS

Information about proprietary products supplied principally on prescription.

Reprints on perforated gummed paper for affixing to index cards are obtainable.

THE CHEMIST AND DRUGGIST Guide to New Medicaments (September 1, 1956).

#### TERRAMYCIN syrup

Manufacturer: Pfizer, Ltd., 137 Sandgate Road, Folkestone, Kent.

Description: An aqueous suspension of calcium dioxytetracycline in a red cherry-flavoured vehicle. It is ready prepared, 1 teaspoonful (5 mils) containing the equivalent of 125 mgm. of oxytetracycline activity.

INDICATIONS: As for Terramycin oral preparations.

Dosage: Adults: Moderate infections, 1 gm. in four divided doses of 250 mgm. every six hours; severe infections, 2 gm. in four divided doses of 500 mgm. every six hours; fulminating infections, 4 gm. in eight divided doses of 500 mgm. every three hours. Children: Moderate infections, 10 mgm. per lb. of body weight daily in four divided doses; severe infections, 20 mgm. per lb. of body weight daily in four divided doses.

How Supplied: In 2-fl. oz. (60-mil) bottle.

FIRST ISSUED: May 28, 1956.

THE CHEMIST AND DRUGGIST Guide to New Medicaments (September 1, 1956).

#### MONPHYTO

Manufacturer: Laboratories for Applied Biology, Ltd., 91 Amhurst Park, London, N.16.

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DESCRIPTION: A colourless, quick-drying non-smearing liquid containing boric acid, B.P., 2 per cent.; chlorbutol, B.P., 3 per cent.; methyl salicylate, B.P., 18 per cent.; salicylic acid, B.P., 12 per cent.; undecylenic acid, B.P.C., 5.5 per cent.

INDICATIONS: A. Moniliasis (yeasts): (1) Cronic paronychia; (2) intertrigo; (3) erosio interdigitalis. B. Tinea (fungi): (1) Tinea pedis; (2) tinea circinata; (3) tinea cruris; (4) tinea unguium (in that otherwise intractable condition improvement, though not cure, will be obtained).

Use: Applied four to five times daily; twice daily to feet.

How Supplied: In 18-c.c. bottle fitted with brush. First Issued: May 1956. Reference: Brit. med. J., 1955. 2. 1623.

THE CHEMIST AND DRUGGIST Guide to New Medicaments (September 1, 1950).

#### Hydrocortisone acetate snuff capsules

MANUFACTURER: The Armour Laboratories, Hampden Park. Eastbourne, Sussex.

DESCRIPTION: Hydrocortisone acetate, 15 mgm.; inert substance, 85 mgm.

INDICATION: Hay fever.

Dosage: One capsule to be insufflated in twenty-four hours.

How Supplied: As insufflation set of six capsules and insufflator; tube of six capsules; bottles of twelve and 25 capsules; and Armour powder insufflator. First Issued: May 29, 1956.

REFERENCES: Schiller, J. Allergy, 1953. 24. 297. Herxheimer, Brit. med. J., 1954.
1. 184. Schwarz, J. Allergy, 1954. 25. 112. Foulds and others, Lancet, 1955. 1.
234. Herxheimer, Lancet, 1956. 1. 537.

THE CHEMIST AND DRUGGIST Guide to New Medicaments (September 1, 1956).

#### VEROXIL

MANUFACTURER: The Crookes Laboratories, Ltd., Gorst Road, Park Royal, London, N.W.10.

Description: Elixir containing piperazine tartrate equivalent to 500 mgm. piperazine.

INDICATIONS: Threadworm and roundworm infestation.

Dosage: 9 months-2 years, ½ teaspoonful twice daily; 2-3 years, ½ teaspoonful three times daily; 4-6 years, 1 teaspoonful twice daily; 7-13 years, 1 teaspoonful three times daily; 14 years and over, 2 teaspoonfuls twice daily

How Supplied: In 4-oz, bottle.

FIRST ISSUED: May 24, 1956.

REFERENCE: Goodwin and Standen, Brit. med. J., 1954. 2. 1332.

THE CHEMIST AND DRUGGIST Guide to New Medicaments (September 1, 1956).

#### PREMARIN

MANUFACTURER: Imperial Chemical (Pharmaceuticals), Ltd., Fulshaw Hall, Wilmslow, Ches.

Description: A preparation of orally active, water-soluble conjugated oestrogens, derived from pregnant mares' urine. The product is standardised in terms of the active water-soluble oestrogen content. It contains sodium oestrogen sulphate, and the sulphates of equilin, equilenin,  $\beta$ -oestradiol,  $\beta$ -dihydroequilenin and other conjugated steroids.

INDICATIONS: Functional uterine bleeding; hypogenitalism and functional amenorrhœa; menopausal disorders; senile vaginitis, kraurosis vulvae and pruritus vulvae; inhibition of lactation; prostatic carcinoma.

CONTRA-INDICATIONS: Some clinicians believe that oestrogens are contra-indicated where there is familial or personal history of mammary or genital malignancy.

Dosage: 0.625-7.5 mgm., daily; usually given in courses, the dosage being reduced gradually to maintenance level. Doses of up to 22.5 mgm. have been used in some instances.

How Supplied: Tablets of 0.625 mgm. in containers of 100 and 1,000; and tablets of 1.25 mgm. in containers of thirty, 100 and 1,000.

FIRST ISSUED: April 1956.

REFERENCES: Lancet, 1951. 1. 818. Amer. J. Obstr. Gynec., 1946. 51. 660.

THE CHEMIST AND DRUGGIST Guide to New Medicaments (September 1, 1956).

#### DULCOLAX

MANUFACTURER: Lewis Laboratories, Ltd., Knowsthorpe House, Knostrop Lane, Leeds, 9.

DESCRIPTION: A laxative containing 4.4 diacetoxy-diphenyl-2 pyridyl-2-meckane, the effect of which is produced by direct contact on the mucous membrane of the large intestine.

INDICATIONS: Chronic constipation, atonic and dyscinetic forms. Constipation caused by lying in bed, change of food or environment, or arising from serious illnesses, febrile diseases, circulatory and metabolic disorders. Intestinal evacuation prior to radiology, etc.

Dosage: 1-3 enteric-coated tablets (5 mgm.); 1 suppository.

How Supplied: As enteric-coated tablets (5 mgm.) in bottles of thirty and 200. As suppositories (10 mgm.) in boxes of six and fifty.

FIRST ISSUED: April 11, 1956.

REFERENCES: Schmidt, Arzneim.-Forsch., 1953. 3. 19. Förtsch. Disch. med. Wschr. 1953. 78. 916. Schaal and Bachor, Med. Klin. 1953. 48. 1072.

THE CHEMIST AND DRUGGIST Guide to New Medicaments (September 1, 1956).

#### NUTINAL\*

MANUFACTURER: Boots Pure Drug Co., Ltd., Station Street, Nottingham.

Description: Tablets each containing 1 mgm, benactyzine hydrochloride (2-diethylamino ethyl benzilate hydrochloride).

INDICATIONS: Psychoneurosis, especially in patients exhibiting anxiety, obsessivecompulsive traits or psychosomatic symptoms; psychosomatic disorders. It is also useful in chronic alcoholism.

Dosage: 1 mgm. three times daily, gradually increased, if necessary, to 3 mgm. three times a day.

How Supplied: In bottle of 100. First Issued: May 1956.

REFERENCES: Ostenfeld, Nord. Med., 1955, 54, 1523. Raymond and Lucas, Brit. med. J., 1956, 1, 952. Davies, Brit. med. J., 1956, 1, 480.

\*Cross reference for card index:

BENACTYZINE hydrochloride: See Nutinal and Suavitil.

THE CHEMIST AND DRUGGIST Guide to New Medicaments (September 1, 1956).

#### VIBAZINE

Manufacturer: Pfizer, Ltd., 137 Sandgate Road, Folkestone, Kent.

Description: Antihistamine tablets each containing 25 mgm. 1-p-chlorobenz-hydryl-4-p-butyl-(t)-benzyl-piperazine dihydrochloride.

INDICATIONS: Nausea and vomiting of pregnancy; motion sickness.

Dosage: Average, 25-50 mgm. once or twice daily, at bedtime and if necessary on arising in the morning. For the prevention of motion sickness the drug is effective at a dosage of 50 mgm. thrice daily.

How Supplied: In bottles of twenty and 100 tablets. First Issued: June 1956.

# NOTES ON NEW PRODUCTS

Comments on items given in Guide to New Medicaments, especially to show their relationship—pharmacological or chemical—with other products or compounds.

products or compounds.

HYDROCORTISONE SNUFF (Armour, Pfizer).

—Used in hayfever, following a paper by Herkheimer (Lancet, 1956, 1, 537). Nasal application avoids the disadvantages of systemic therapy, and deposit in particle form climinates dilution. Both conjunctival and nasal symptoms are relieved, and those new preparations offer a fresh approach to the local treatment of hayfever, A similar product is Pabracort, and nasal sprays containing hydrocortisone include Efcortelan and Vasocott.

VEROXIL.—Contains piperazine, the now accepted remedy for oxyuriasis and ascariasis, in the form of the tartrate. Comparable preparations include Antepar (piperazine hydrate). Helmezine (piperazine citrate) and Entacyl (piperazine adipate).

PREMARIN.—Natural oestrogens, or their metabolic derivatives, are derived from the urine of pregnancy, hence are water-soluble. Commercial oestrogens are not so soluble, and are more active when given by injection as an oily solution than when used orally. Water-solubility and oral activity can be restored by conjugation.

#### AMERICAN APPROVED REMEDIES

Products accepted by the American Medical Association's Council on Pharmacy and Chemistry for inclusion in its list of "New and Nonofficial Remedies":—

METHYPRYLON. — 3, 3-Diethyl-5-methyl-2, 4-piperidinedione. Methyprylon is chemically unrelated to the barbiturates but depresses the central nervous system in a similar manner. The drug possesses a wide margin of safety and exerts pronounced hypnotic effects but has less tendency to produce respiratory depression than barbiturates, Proprietary name: Noludar. Data supplied by: Hoffmann-LaRoche, Inc.

PYRATHIAZINE HYDROCHLORIDE. — 10-[2-(1-Pyrrolidyl)-ethyl]phenothiazine hydrochloride. The drug is chemically related to promethazine hydrochloride, and is an effective antihistaminic agent with actions, uses, and side-effects similar to those of other drugs of this pharmacological class, Proprietary name: Pyrrolazote, Data supplied by: The Upjohn Co.

PYRIMETHAMINE,—2, 4-Diamino-5-p-chlorophenyl-6-ethylpyrimidine. The drug is chemically related to chloroguanide hydrochloride, and is a potent folic acid antagonist used as an antimalarial agent, Proprietary name: Daraprim. Data supplied by: Burroughs Wellcome & Co., Inc.

#### N.H.S. STATISTICS

In Worcestershire during 1955-56, 1,631,094 prescriptions were dispensed; average cost 50.75d.

In Renfrewshire during 1955-56, 894,571 prescription forms were issued compared with 878,010 in 1954-55. Total cost of prescriptions was £353,696 (£364,553). Prescription charges totalled £47,076 (£45,986). Average cost per prescription was 95d. (99.5d.).

In Denbighshire and Flintshire during 1955-56, pharmaceutical services cost £340,856.

In NORTHERN IRELAND during February, 759,110 prescriptions (457,502 forms) were dispensed. Total cost, £208,531; average per prescription, 65.93d. During March, 723,524 prescriptions (440,307 forms) were dispensed, total cost, £202,827, average, 67.28d.

#### ARGENTINE IMPORTS

THE Board of the Central Bank of Argentina, at a meeting held recently, decided to draw up a programme for imports through the official exchange market during the second half of 1956. The object was to cover urgent needs of raw materials and other essential imports for the maintenance of economic activities. Distribution of exchange among the various currencies is to be allocated bearing in mind the new multilateral trading system with eleven European countries, whose currencies are inter-convertible.

Modified System

The plan provides for the application of a modified form of the aforo (assessment) system to import permits subject to the automatic regimen. Hitherto such permits have only been granted after approval by the Price Control Committee of the prices quoted in the application. Under the new system, which was introduced in August, aforos in the form of maximum assessments of the value of the merchandise are established for each article. If the application quotes a price equal to, or below, the assessment the permit is granted forthwith. Any excess must be paid by the importer at free market Also, the purchase need no longer be definitely closed when the application is submitted, but must be completed within fifteen days of the issue of the permit. To cover exchange fluctivelies entities constant changes the state of the permit of the permi fluctuations, entailing constant changes in the assessment, the latter will be established at 10 per cent, below the foreign quotation and any alteration will be announced without delay.

So far, the new system has only been applied to a small list of articles, in-cluding sundry chemical products, but others are being added gradually. During the first six months of 1956 imports under the old aforo system, subject to price control, were issued for the following: Carbolic acid, 7,668 tons; urea and its compounds, 9,448 tons; sodium bichromate, 5,550 tons; ammonium bi-carbonate, 45 tons; guarana resin, 28 tons; sodium orthophenylphenate, 5

tons.

The Central Bank has recently decided to grant automatic exchange permits to import surgical instruments and resins from the sterling and other specified areas; carbolic acid, pure and crude; natural sponge in bulk; sodium bichromate; and urea and its compounds from any source; also drugs, "patent" medicines, etc., when application made by registered importers and health authorities. Other circulars have included sulphur in bulk or fragments, methyl alcohol, powdered rennet and natural kid's rennet in the list of free market imports without surcharge. Applications are also invited to import agar, kola nuts and various chemical products.

State Industries Department The (DNIE) has been ordered to dispose of its surplus stocks of chemical and other raw materials, after which it will cease to intervene in the distribution of imported merchandise. Despite an appreciable increase in Argentina's aggregate chemical and pharmaceutical products,

purchases in United Kingdom continue to decline. Comparing the first five months of 1955 and 1956, imports under Comparing the first five that heading dropped 56 per cent, in 1956, to £1,137,591, medicinal and pharmaceutical preparations 82 per cent., to £51,949.

During the first half of 1956 foreign investments to the value of 17,800,000 pesos were authorised and applications to invest a further 25,200,000 were under consideration at June 30. Applications, recently approved, include: Produtos Lederle Inc. (U.S.A.), to install a factory; Basf Handels und Export Gesellschaft (Germany), to manufacture sodium hydrosulphide; Parke, Davis & Co. (U.S.A.), to produce Chloromycetin preparations; Merck & Co. (U.S.A.), to make cortisone, hydrocortisone, pred-nisone, etc.; Eli Lilly International (U.S.A.), to make its medicinal preparations in Argentina; Prothoplast A.G. (Switzerland), to produce acrylic resins for dental and other purposes.

#### **DEVELOPMENTS IN** BRAZIL

A LONG list of essential pharmaceutical raw materials and a few medicinal preparations have been transferred to category 1 in order to reduce the cost of imports. The following are the principal products transferred. To assist comparison of costs before and after the revision it should be noted that, except where the number of the former category is given in parentheses, all the items moved to category 1 were originally in category 2:

Natural cryolite; liquid paraffin; magnesium hydroxide; bismuth subnitrate; unspecified medicinal carbonates and proteinates of silver; bromide, acetyl, chlorite, ethyl, methyl, antimonium, naphthtol and acetate compounds; magnesium and sodium lactates; quinoline; Myleran preparations (4); sulphonamide preparations (4).

Transfers to category 2 include:—Pure medicinal sodium chloride (1); calcium lactophosphate (1); unspecified phenols and alcohol-phenols (4); materials for surgical dressings (1); peptones.

The following have been transferred to category 3:—Agar (4); unspecified aromatic chemicals; homoeopathic pre-

parations (4).

The number of "limited convertible ea" dollars auctioned weekly in Brazil and available for imports from the U.K., increased from 1,386,600 in May to 2,263,300 in August, bringing down the average premium paid at Rio for category 1 imports from 79 cruzeiros to 61; for category 2, from 119 to 83; for category 3, from 196 to 131; for and pharmaceuticals accounted for 11.8 per cent, of Brazil's total imports in 1955. category 4, from 211 to 190. Chemicals

#### **New Capital Issues**

The value of new investments in the chemical and pharmaceutical industries during the first half of 1956 totalled 717,700,000 cruzeiros (say, £3,588,500 at the free rate of exchange); 82 per cent, corresponded to capital increases and 18 per cent, to capital registered by

enterprises organised during the period. Excluding the petroleum industry, which is capitalised by State contributions and by compulsory subscriptions from owners of motor vehicles, new invest-ments in the chemical-pharmaceutical industries were only exceeded by those in foodstuff manufactures.

Comparing the first six months of 1955 and 1956, new capital invested by Brazilian companies decreased, owing to credit restrictions, while foreign capital entries increased. They should increase still further during the second half of 1956 as investments, now awaiting official approval, amount to the equivalent of U.S. \$260,000,000, compared with U.S. \$27,433,679 authorised in 1955.

#### WORLD TRADE

Swiss Pharmaceutical Plant.-Under its 80 million Swiss francs investment programme Ciba A.G. of Basle is at present building a pharmaceutical processing and packaging works at Stain in the Aargau Kanton. The plant. which will employ 500 workers, is nearing completion.

Spanish Mercury Deposits. - Local press reports announce the discovery of a new deposit of mercury ore near Alcaraz in the Albacete area of south-eastern Spain. The mining authorities there are said to have marked out an area of 2,205 hectares as a quicksilver-bearing zone. Further prospecting work is to be carried out.

Egyptian Trade in 1955. — The Egyptian Customs Administration has published statistics showing that 26.6 per cent. of Egypt's exports went to the Eastern Bloc in 1955, compared with 14 per cent, in the previous year. The report said that henceforth Egypt would restrict imports of "luxuries or superfluous goods," and would try to increase production and subsequent exports.

Swiss Chemical Exports. — Swiss exports of pharmaceutical products. aniline dyes and perfumes increased in July compared with the same month of 1955, while sales of heavy chemicals declined, according to statistics. Fine chemicals and pharmaceuticals products weighed 607 metric tons (against 592 in July 1955). Perfumes and cosmetics weighed 128 metric tons (87); and heavy chemicals, 6,326 (8,991).

New Zealand Tariff Review. — The New Zealand Board of Trade is at present conducting a comprehensive review of tariff in connection with which the New Zealand interests have requested increases in the British preferential rates of duty on a large number of imports. The following have been extracted from a list published in the Board of Trade Journal, August 25: The requested new British preferential duty is followed, in parenthesis, by the percentage duty ruling at pre-sent:—Soap, 30 (20\*); disinfectants, 15 (3); vitamin A and D capsules, 20 (3); saccharin 20 (1s. 6d. per oz.\*); medicinal bottles and jars of a type made in New Zealand, 20 (3 or 20\*); combs and toilet requisites made of plastic 45 (20); toilet brushes, 45 (20).

\* Plus surtax at the rate of ninefortieths of the amount of duty.



# 'Saridone' FOR PAIN

PACKINGS

'Saridone' tablets are issued in packings of 10, 50 and 250

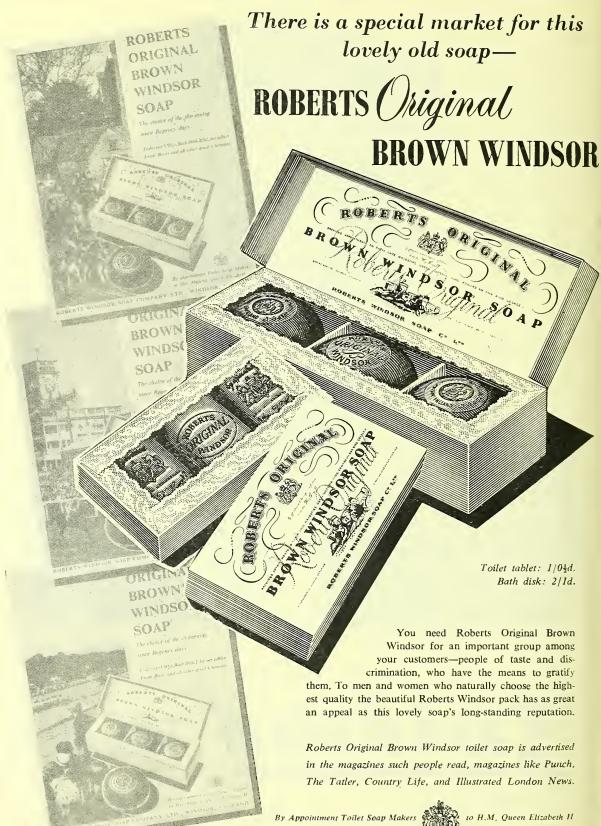
 Each tablet contains:
 ...
 0.15 g.

 Fhenyl-dimethyl-isopropyl-pyrazolon
 ...
 0.25 g.

 Acetphenetidin
 ...
 ...
 0.25 g.

 Caffeine
 ...
 ...
 ...
 0.05 g.

ROCHE PRODUCTS LIMITED · 15 MANCHESTER SQUARE · LONDON W1



### TRADE REPORT

The prices given are those obtained by importers or manufacturers for bulk quantities or original packages. Various charges have to be added whereby values are in many instances augmented before wholesale dealers receive the goods into tock. Crude drugs and essential oils vary greatly in quality and higher prices are charged for selected qualities.

LONDON, AUGUST 29: From the number of price changes in Pharmaceutical Chemicals notified by manufacturers during the week, it seems that each company is now fixing its own schedules and the timing of their coming into force. Another change in policy which is evident is the discouragement of contracts, the usefulness of which has lately been one-sided. Consumers have been able to receive small consignments at rates applicable to a larger quantity by making a contract to take the larger quantity over an extended period. In future the goods will be charged at the rate scheduled for the quantity taken at the time.

Two more manufacturers of Iodides and Iodine preparations have announced price reductions; their prices are at variance with the schedule of a third, announced a fortnight ago. The main Bismuth salts have been reduced by different amounts. The 1-cwt. rate for the Carbonate is 1s. 8d, per lb. less than previously; the minor bismuth salts are unchanged for the time being. Bromides and Citrates are also slightly cheaper; the Potassium salts being twopence halfpenny and one penny per lb. less, respectively. In 1-cwt. quantities Aspirin is three-halfpence per lb. dearer, although larger quantities are unchanged. One-ton lots of Sodium salicylate are unchanged out smaller lots are increased from a halfpenny to twopence per lb. according to quantity. Some Mercurials have been slightly reduced by one maker although another manufacturer has made no alteration yet. Emetine hydrochloride was easier by 5s. per oz. New prices circulated by one manufacturer for Caffeine and Theobromine show a reduction in all the alkaloids and salts but the new rates do not permit mixed parcels as in

In the CRUDE DRUGS market inquiry for most commodities was restrained with prices firmly held. SENEGA for shipment was dearer than for spot supplies. BALSAMS retained their advances of the previous week and ToLU (genuine as imported), appeared to have been cleared on the spot. Because of increased freight rates forward prices of Chinese ANISEED were marked up by 5s, per cwt, for shipment. Among SPICES, Zanzibar CLOVES were twopence per lb, dearer on the spot; some holders of Jamaican GINGER

were asking 10s. per cwt. more than last week; African, however, was 10s lower.

The higher rate for LEMONGRASS noted last week was not held, spot offers dropped by ninepence per lb. and shipment by 1s, 9d. CITRONELLA was also easier for both the Ceylon and Formosan varieties. Penang PATCHOULI was 2s, per lb, cheaper for shipment.

#### Pharmaceutical Chemicals

ACETIC ACID. — B.P. glacial in 10-ton lots is £97 per ton naked and technical, £91. Carboys are £8 and demijohns £10 per ton extra.

ADRENALINE.—Rates for synthetic B.P. are from 1s, 3d, (500-gm. lots) to 1s, 9d, (10 gm.) per gm. and ACID TARTRATE, B.P., from 10d, to 1s, 2d.

AMIDOPYRIN. — Minimum price (5-cwt. lots) is 22s. 84d. per lb., with usual differential for smaller lots.

AMPHETAMINE.—Base is now 170s, per kilo for 5-kilo lots and 180s, for 1-kilo; SULPHATE is 140s, to 150s, and *d*-AMPHETAMINE SULPHATE, 450s, to 455s, for similar quantities.

AMYLOBARBITONE. — B.P.C. is 65s. per lb. for 1-cwt. lots and SODIUM, B.P.C., 70s. per lb.

Antimony salts.—Quotations for potassium tartrate, b.p., are 7s. 6d. per 1b. for 1-10 cwt. and Sodium tartrate, b.p. 13s, 3d.

Aspirin. — Prices are as follows: — 5-cwt. lots, 4s. 7d. per lb.; 1-cwt., 4s. 9d.

Barium Sulphate.—1-cwt. lots of B.P. (x-ray) are now 1s.  $6\frac{1}{2}$ d. per lb. and 5-cwt. 1s.  $5\frac{1}{2}$ d. per lb.

BENZAMINE.—In 16-oz. lots Lactate is 15s. 3d. per oz., and Hydrochloride, 16s. 3d. per oz.

BISMUTH SALTS.—The following are the prices (per lb.) in largest bulk packages:—

BISMUTH	28 lb. to 1-cwt.	1-cwt.	5-cwt.	
CARBONATE SALICYLATE SUBGALLATE SUBNITRATE	s. d.	s. d.	s. d.	
	22 3	21 9	21 4	
	21 9	21 4	20 10	
	21 1	20 8	20 2	
	20 5	20 0	19 6	

The present 1-cwt, rates for other salts are:—CITRATE, B.P.C., 22s. 8d.; NITRATE, crystal, 14s. 8d.; OXIDE, B.P.C., 27s. 7d.; OXYCHLORIDE, B.P., 27s. 9d.; OXYIODOGALLATE, B.P.C., 28s. 9d. and TRIBROMPHENATE, B.P.C., 26s. 9d.

Bromides.—Prices per lb. are now as follows:—

BROMIDE	1-cwt.	5-cwt.
POTASSIUM SODIUM AMMONIUM	s. d. 2 10 2 10 3 0	s. d. 2 9 2 9 2 10

The above prices are for crystals (powder is 1½d. per lb. more), packages free, carriage paid terms.

CAFFEINE. — For 1-cwt. lots, Alkaloid, B.P., is 18s. 7d. per lb. anhydrous alkaloid, 19s.; and Citrate, 12s. 3d.

CINCHOPHEN.—1-cwt. lots are quoted at 21s. per lb.

CITRATES. — Rates (per lb.) for 1-cwt. and 5-cwt. lots are as follows:—

CITRATE	1-cwt.	5-cwt.
Sodium* Potassium* Iron and	s. d. 3 2½ 3 9½	s. d. 3 1½ 3 8½
AMMONIUM†	4 1½	$4   0\frac{1}{2}$

\*Powder is 2d. per lb. more. †Scales are 9d. per lb. more.

Cresol.—Price of B.P. quality from distillers is 7s. 9d. per gall. in 5-gall. lots.

DEXTROSE. — Rates are as follows:—
MONOHYDRATE, B.P., 1-lb., 1s. 11½d.; 7-lb., 11s. 10d.; 28-lb., 43s.; free packages, less 12½ per cent. to wholesalers. In bulk, 1-ton lots, £90 ex works. ANHYDROUS, B.P., 7-lb., 14s.; 14-lb., 26s. 3d.; 28-lb., 49s. (terms as for monohydrate). 1-ton lots, £107 10s. ex warehouse.

EMETINE.—Price for 32-oz. lots of the HYDROCHLORIDE is 245s. per oz. The BISMUTH IODIDE is 122s. 6d. per oz.

ERGOMETRINE. — For 20-gm. lots the price of the MALEATE, B.P. is £21 10s. per gm., and the TARTRATE, £20 per gm.

GALLIC ACID.—B.P.C. is 8s. 7d. per lb. for 1-cwt, lots.

Hydrogen peroxide.—Carboy lots of 20 vols. are 5s. per gall. The 35 per cent. (by weight) is 158s. per cwt. in 1-cwt. carboys.

Hypophosphites.—Price per lb. are as follows:—

Нурорноѕрніте	7 lb.	28 lb.	1 cwt.
CALCIUM IRON MAGNESIUM MANGANESE POTASSIUM	s. d.	s. d.	s. d.
	6 4	5 11	5 6
	13 3	12 9	12 3
	10 4	9 11	9 6
	13 6	13 0	12 6
	8 7	8 2	7 9
	7 1	6 8	6 3

IODIDES.—The current quotations (per lb.) include the following:—

IODIDE	28-111 lb.	1-cwt.
POTASSIUM	s. d. 12 8 16 4	s. d. 12 3 15 5

IODINE.—Resublimed is 15s. 5d. per lb. in 1-cwt. lots. Minimum delivered rate for CRUDE is 22s. 4d. per kilo.

IODOFORM.—Powder is 24s. 6d. per ib. in 1-cwt. lots and crystals, 27s. 6d.

LACTATES.—CALCIUM, B.P., is 2s. 9d. per lb. in 5-cwt, lots and 2s. 10d. in 1-cwt. lots; CALCUIM SODIUM for similar quantities is 4s. 5d. and 4s. 6d. per lb.; and SODIUM, B.P. 1932, from 2s. 10d. to 3s. 7d. as to quantity.

Lactic acid.—B.P. is 4s. 3d. per lb. for 12-winchester lots and 3s. 10d. for 5-cwt. lots.

Magnesium Carbonate.—Minimum bulk rate for light is 121s. per cwt.; heavy is 160s, per cwt. for 5-cwt. lots and about 135s. per cwt. for 1-ton lots, delivered U.K.

Magnesium oxide, B.P. — Bulk rates are as follows:—LIGHT, 3s. 3d. per lb., and heavy, 5s. 10d. per lb.

MAGNESIUM SULPHATE.—Quotations for B.P. in minimum I-ton lots vary between £17 10s. and £20 per ton according to size of crystal and manufacturer. Exsiccated is £37 2s. 6d. per ton. All ex works.

#### EXCHANGE RATES ON LONDON

At the opening on Wednesday Alexandria Piastres to £ 97<sup>1</sup><sub>4</sub>-97<sup>3</sup><sub>4</sub> 10·56-10·72 Bombay ... Shillings to rupee  $1/5\frac{15}{16}-1/6\frac{1}{18}$ Francs to £ 138.95-141.05Kronor to £  $19.19\frac{1}{2}-19.48\frac{1}{2}$ Brussels Copenhagen
Dutch West
Indies
-Hong Kong
-Karachi Florins to £ Shillings to \$ Shillings to 5·26-5·29 1/213-1/215 1/518-1/618
79.90-81.10
2.73-2.731
2.78-2.82
19.85-20.15
972.6-987.3
14.372-14.591
2/37-2/4
12.1535-12.3338 rupee Escudos to £
Dollars to £
Dollars to £
Kronor to £
Kronor to £
Kronor to £
Shillings to \$
Francs to £ Montreal New Lisbon New York... Oslo Stockholm ... Singapore ... Zurich

Free market rates; remainder Bank of England, Bank rate increased to 51 per cent, on February 16.

Magnesium trisilicate. — In 28-lb. packages the prices (per lb.) are now as follows: —28-lb., 4s. 9½d.; 1-cwt., 3s. 10d.; 5-cwt., 3s. 7d.; 1-ton, 3s. 1d.

DERIVATIVES. -MERCURY (per kilo) for 50-kilo lots are as follows AMMONIATED, B.P., lump or powder, 60s.; PERCHLORIDE, B.P., powder, 52s, 6d, and lump, 53s. 6d.; SUBCHLORIDE (calomel) B.P., 61s.; OXIDES, B.P.C., levigated or yellow, B.P., 63s. 6d.

METHADONE HYDROCHLORIDE. — Price is from 2s. to 2s. 6d. per gm. as to quantity. Subject to D.D.A. regulations.

METOL. — In 1-cwt. lots the price is 24s. 6d. per lb.; 28-lb., 25s. 6d.; 14-lb., 27s.; 7-lb., 28s.

Oxalic acid.—Manufacturers' rates for ton lots are from £129 per ton, delivered.

Papaverine. — Synthetic hydrochloride is 252s. 6d. per kilo.

PHENACETIN. — In 5-cwt. lots makers' price is now 6s. 8d. per lb., 1-cwt., 6s. 9d.

PHENOLPHTHALEIN.—Rate for 1-cwt. lots is 11s. per lb.

PHENYTOIN SODIUM. — B.P. is 23s, per lb. in 1-cwt, lots.

PHOSPHORIC ACID. — B.P. (s.g. 1·750) is quoted at 1s. 4d. per lb. in 10-carboy lots. 1-2 carboys, 1s. 8d. per lb. B.P. 1914 is quoted from 1s. 2d. to 1s. 6d. per lb. HYPOPHOSPHOROUS, B.P.C., in winchesters is from 5s. 9d. to 6s. 10½d. per lb., as to quantity.

PILOCARPINE. — 1n 100-oz. (or 2½-kilo) lots prices are: hydrochloride, 42s, 6d. per oz. (1,428s. 6d. per kilo); nitrate, 38s. per oz. (1,340s. per kilo).

PIPERAZINE. — Short on the spot. Nominal quotations for HYDRATE are about 27s, 6d, per lb.

POTASSIUM ACETATE.—B.P. is 2s. 10d. per lb. in 1-cwt. lots.

POTASSIUM HYDROXIDE.—B.P. sticks are 6s. 6d. per lb.; technical, flake, 1s. 4d.

ROCHELLE SALT. - Rates (per cwt.) for ROCHELLE SALT. — Rates (per cwt.) for powder or granulated material are as follows:—In 5-cwt, lots or over, 200s. per cwt.; 1-cwt., 202s. 6d. SEIDLITZ POWDER ordinary strength is 160s. 6d. per cwt. in 1-cwt. lots; smalls, from 2s. to 2s. 3d. per lb. Extra strong is 172s. 6d. per cwt., and from 2s. 1d. to 2s. 4d. per lb. for small quantities, Double-strength is 180s. per cwt.; smalls, 2s. 2d. to 2s. 5d. per lb.

SALICYLIC ACID. — Prices are now: cwt. lots in bulk, 3s.  $0\frac{1}{2}$ d. per lb.;

SAHICYLIC ACID. — FILES are loss. 5-cwt. lots in bulk, 3s. 0½d. per lb.; 1-cwt., 3s. 2½d.

SANTONIN. — The following prices (per kilo) apply in the home market, including Eire: —25-kilo lots, 800s.; 10-kilo, 860s.; 4-kilo, 880s.; 1-kilo, 900s.

SODIUM CARBONATE. - B.P. exsiccated is 60s, 6d, per cwt.

SODIUM PERBORATE. — Prices (per cwt.) are 145s. 9d. in 1-cwt. kegs; 138s, 3d. in 1-cwt. bags for B.P.C. (minimum 10 per cent. available oxygen). Other strengths pro rata. The PERBORATE MONOHYDRATE testing 15 per cent. available oxygen is 309s, 9d. per cwt.

SODIUM SALICYLATE.—Rates are now:—
1-ton lots in bulk, 3s. 7d. per lb.; 5-cwt.,
3s. 8d.; 1-cwt., 3s. 10d.

SULPHACETAMIDE.—Quotations (per lb.) for 1-cwt. lots are 24s. 6d. The SODIUM DERIVATIVE is 30s.

SULPHAGUANIDINE.—Manufacturers' rates for 1-cwt. lots are about 14s. 6d. per lb.

SULPHANILAMIDE.—Manufacturers' rates are from 6s. 3d. per lb.

SULPHATHIAZOLE. — Price (per lb.) for 1-cwt. lots is 16s. 6d.

THEOBROMINE. — Alkaloid is 21s. 9d. per lb. for 1-cwt. lots. Theobromine sodium salicylate, 16s. 4d. per lb., for spot lots.

Crude Drugs

ACONITE. — Spot supplies of Spanish napellus are 3s. 9d. per lb., duty paid.

AGAR.—Kobé No. 1 is from 13s. per lb., duty paid; for shipment, 11s. 9d., c.i.f.

- Prime Cape for shipment is valued at 330s. per cwt., c.i.f.; spot, 345s. Curação, 345s. spot and 340s., c.i.f.

ANISEED (STAR).—Chinese is 125s, per cwt., c.i.f., for shipment. Spot supplies (if available), 135s.

BALSAMS.—Quotations (per lb.) are:—Canada: 24s. on the spot. COPAIBA, 7s, 9d. to 11s., duty paid. Peru, 10s., duty paid. Tolu (genuine as imported) is 27s. 6d. nominal; B.P. is 17s. 6d., spot.

BENZOIN.—Sumatra block on the spot is from £25 to £30 per cwt. No. 1 for shipment is £23 5s., c.i.f. Almonds, 15s. per

CAMPHOR. — B.P. POWDER is from 5s. 3d. per lb., duty paid. TABLETS, 4-oz. are 5s. 10d., c.i.f., and 6s. 4½d., spot.

CAPSICUMS.—East African on stalk are 150s, per cwt. on the spot.

Cardamoms.—Aleppy greens for prompt shipment are 14s, 6d, per lb., c.i.f., with new-crop, September-October at 13s. 6d., c.i.f. Spot is 14s. 6d.

Cascarilla. - Spot market bare and shipment not quoted.

CASSIA BARK. — Whole on the spot is about 85s, per cwt., in bond and for forward delivery, 74s. 6d., c.i.f. Broken 75s., in bond, and 63s., c.i.f.

CHAMOMILE. — Belgian 5s. 3d. per lb. on the spot.

CINNAMON.—Ceylon for shipment (c.i.f.) per lb., OOOO, 7s. 0½d.; OOO, 6s. 11½d.; OO, 6s. 10½d.; O, 6s. 8½d.; firsts, 6s. 3½d.; quillings, 4s. 1d.; chips, 9¾d. to 10¾d.

CLOVES.—Zanzibar on the spot are now quoted at 3s. 6d. per lb.; prompt shipment, 3s. 2\frac{1}{4}d., c.i.f. Madagascar, 2s. 11\frac{3}{4}d.,

COCILLANA.—Bark is 2s. 6d. per lb. on the spot.

COLOCYNTH PULP. — Spot offers are 4s. 6d. per lb., duty paid.

DIGITALIS LEAF.—Purpurea is offered at 1s. 3d. per lb., c.i.f.

ERGOT.—Portuguese old-crop is 6s. 9d. per lb., c.i.f., for prompt shipment with new-crop at 7s. 9d.; East European, no offers on the spot.

GALANGAL. - No. 1 root is quoted at 57s. 6d. per cwt., c.i.f.

GENTIAN. - French is from 180s, to 185s. per cwt., on the spot.

GINGER. — African on the spot is 245s, per cwt., with August shipment at 230s., c.i.f. Jamaican No. 3 for shipment no offers; spot, No. 3, 600s. to 610s.

GUM ACACIA. — Kordofan cleaned sorts on the spot are 142s. 6d., per cwt.; afloat, 132s. 6d., c.i.f., and shipment, 127s. 6d., c.i.f.

HONEY. — Australian light-amber is 145s, and medium-amber, 140s.; Argentine, 145s.; Jamaican, 145s. to 150s., all per cwt., on the spot.

HYDRASTIS.—Root is 23s, per lb, on the spot.

IPECACUANHA. — (Per lb.). Colombian, 43s. 6d., spot, and 41s., c.i.f. Matto Grosso, 42s. 6d., spot, and 40s., c.i.f. Nicaraguan, spot, unobtainable; shipment firm at 57s. 6d., c.i.f.

KARAYA.—No. 1 gum on the spot is now quoted at 285s, per cwt., and No. 2 at 235s.

LIQUORICE. — Natural root: Quotations include Anatolian 47s. 6d.; Russian, 50s.; Persian, 35s.; Chinese, 42s. 6d. per cwt. Block juice is 200s. per cwt. for the Anatolian and 185s. for Chinese and British on the spot. Italian stick from 310s. to 476s. per cwt., duty paid.

LOBELIA HERB. — Spot material is 11s. per lb. September shipment, 9s. 6d., c.i.f

MENTHOL. — Chinese, steady, 51s. 6d er lb., duty paid. August-September shipment, 45s., c.i.f. Brazilian, spot, very short, 44s. 6d., duty paid; shipment price 42s. 6d., c.i.f.

MERCURY.—Per flask (76-lb.) £83 10s, or the spot.

ORANGE PEEL. — West Indian bitte quarters are 11d. to 1s. per lb.; Spanish 1s. 1d. to 1s. 3d.

Papain. — Firm. Spot East African is 25s. per lb. for grade 1.

PEPPER.-White Sarawak is 2s. 7d. per PEPPER.—White Sarawak is 2s, 7d, people 2s, 6d, c.i.f. Black Sarawak is offering on the spot at 2s, per lb.; Septembe shipment, 1s. 9d., c.i.f. Black Malabar 270s, per cwt. on the spot; Septembe shipment, 235s. 6d., c.i.f.

PODOPHYLLUM. — Emodi is quoted a 145s. per cwt. ex wharf. Indication for new-crop Peltatum, 475s., landed.

QUASSIA. - Chips are 42s, 6d, per cwt

QUILLAIA. — Spot offers of bark are about 205s, per cwt. with shipment, 185s.

RHUBARB,—Quotations for Chinese are from 6s. 6d. to 10s. 6d. per lb., as to quality.

SAFFRON. — Mancha superior on the spot is nominally 265s, per lb. Forward position dearer.

SARSAPARILLA.—Jamaican native red of the spot is 3s. 3d. per lb., and for ship ment, 2s. 10d., c.i.f.

ment, 2s. 10d., c.i.f.

SEEDS. — (Per cwt.), ANISE.—Tunisiar 210s, in bond; Spanish, 245s., duty paid. CARAWAY. — Small business reported i Dutch at 130s., duty paid. CELERY.—Indian is dull with sellers at 140s., spo CORIANDER. — Market unchanged. Spo Moroccan, 90s.; Danubian or Rumannar 62s. 6d.; splits, 55s.; and Bulgaria smalls, 52s. 6d., all duty paid. CUMIN-Spot, Cyprian, 127s. 6d. to 130s. quote Moroccan, 132s. 6d., duty paid; Iraniar 125s., duty paid. DILL. — Indian que da at 65s., spot. FENNEL. — Indian now 92s. 6d., spot. FENNEL. — Indian quoting Indian at 68s. spot and Morocca at 67s. 6d., duty paid. MUSTARD. English, 65s. to 77s. 6d., according t quality. quality.

SENEGA. — Spot is 18s, per lb. Shippe asking 18s, 6d, to 19s., c.i.f.

SENNA.—Tinnevelly LEAVES (per lb.):-Prime bold, 1s. 4½d.; prime No. 3, 8d f.a.q., No. 3, 7½d. all on the spot; Pop f.a.q., new-crop, 7½d., c.i.f. Manufa turing, 6½d., spot. Alexandrian man facturing pods, 10d.; hand-picked fro 3s. 6d. to 7s., as to quality.

TONQUIN BEANS, - Para frosted a 6s. 6d. per lb. on the spot.

TRAGACANTH.—No. 1 ribbon is £170 £175 per cwt.; No. 2, £140 to £145.

TURMERIC. — Madras finger on the sp is 90s. per cwt. with September shipme quoted at 77s. 6d., c.i.f.

VALERIAN ROOT.—Indian on the spot 140s. per cwt. Dutch, 182s., c.i.f.

Vanillin.—Rates (per lb.) are now: 5-cwt. lots, 27s. 6d.; 1-cwt., 27s. 9d 56-lb., 28s.; smaller quantities, 28s. 3d.

S6-lb., 28s.; smaller quantities, 28s. 3d. Waxes.—Bees'—Dar-es-Salaam, August September shipment, 635s., c.i.f., sp 625s.; Sudanese, 570s., duty paid, a 525s., c.i.f.; Abyssinian, spot 570s., di paid, shipment, 530s., c.i.f. Candellilla Shipment, 550s. per cwt. landed; spot 550s. Carnauba.—Fatty grey, spot, 58 per cwt.; for shipment, 570s., c.i.f. Priyellow, spot, 1,275s.; for August-Septe ber shipment, 1,210s., c.i.f. (per cwt.). Witch Hazel Leaves.—Spot suppl are 2s. 3d. per lb.; August shipme 2s. 1d., c.i.f.

#### **Essential and Expressed Oils**

ALMOND,—B.P. imported oil is 10s. 6d. per lb.; British, 13s. to 13s. 6d.

Anise.—Chinese, 14s. 6d. per lb., spot; 13s. 4½d., c.i.f.

CADE. — Spanish is 3s. 9d. per 1b. for drum lots.

CAMPHOR, WHITE. — Chinese is 2s. 1d. per lb., duty paid.

Cassia. — Original drums are 14s. per lb. on the spot. Sh 13s. 3d., c.i.f. Shipment

CEDARWOOD. — 1-cwt. lots of American are 6s. 6d. per lb., and Kenya, 5s. 9d.

CHAMOMILE. - English oil is offered at from 240s, to 256s. per lb.

CHENOPODIUM. - Spot supplies are 31s. per lb.

CITRONELLA.—Ceylon, afloat 6s. 3d. per lb., c.i.f.; shipment, 5s. 5½d., c.i.f. Formosa for shipment is from 5s. 6d. to 5s. 10d. as to position.

CLOVE.—Madagascar leaf is 8s. 10d. per lb., duty paid and 7s. 6d., c.i.f., for shipment. Rectified 87–88 per cent., 12s.; distilled bud oil, English, from 35s.; imported, 17s. 6d.

CORIANDER. — Russian-seed oil is quoted from 77s, 6d, per lb.

CUBEB. — Spot price is from 57s. 6d. per lb.

EUCALYPTUS.—Australian 70 to 75 per cent. eucalyptol on the spot is 5s. 8d. per lb.; 80 to 85 per cent., 6s. 4d. Spanish 70 to 75 per cent. at 5s. 3d., duty paid. Chinese type, 4s. 9d., duty paid.

LAVANDIN.—Spot is from 12s. to 15s. per lb. as to quality, for original drums.

LAVENDER SPIKE.—Spanish is offered at 13s. 6d. per lb. on the spot.

LEMON.—Prices of B.P. oil (4 per cent. to quality and range between 25s. and 40s. per lb. Californian, 28s. 6d. to 36s. 4d., c.i.f., as to quality, subject to

LEMONGRASS.—Spot is 11s, 9d. to 12s. per lb.; September-October shipment, 10s.,

PATCHOULI. — Penang is 38s., duty paid, and 30s., c.i.f.

#### UNITED STATES REPORT

NEW YORK, AUGUST 28: On September 1 producers will advance prices on Ammonium bicarbonate to \$7.00 per 100 lb., Ammonium chloride to \$5.75 per 100 lb., and Sodium nitrite to \$8.50 per 100 lb. (all up 50 cents). U.S.P. grade of GLACIAL ACETIC ACID was increased by seven cents a lb. to 38 cents. Hyoscine hydrobromide was in better supply and the price dropped to \$15 per ounce (down \$2). Over-supplies finally brought refined GLYcerin down two cents a lb. to 28 cents per lb. shipped in tankcars.

The spot market in CRUDE DRUGS held well at seasonal levels. COLOCYNTH PULP advanced two cents to 40 cents a lb., while PAPAIN was higher, with Ceylon white \$4.75 a lb. (up 75 cents) and East African \$3.75 (up 50 cents). Unusually strong conditions were reported in LOBELIA HERB owing to its scarcity. COPAIBA BALSAM was lower at 60 cents a lb., down five cents. Higher per lb. among Essential Oils were Bois DE ROSE at \$2.90 (up 15 cents), CLOVE, U.S.P., at \$2.80 (up five cents), LIME at \$3:80 (five cents), Italian Lemon, \$5:75 (45 cents), and Algerian GERANIUM, \$12.75 (50 cents). Lower per lb, was LEMONGRASS at \$2:10 (down five cents).

#### TRADE MARKS

#### APPLICATIONS ADVERTISED BEFORE REGISTRATION

From the "Trade Marks Journal," August 8 For non-medicated toilet preparations and cosmetics; cleaning and polishing preparations; bleaching preparations; and soap (3)
PLAYTEX, 746,675, by International Latex Corporation, Dover, Delaware, U.S.A.

For soaps, perfumes, non-medicated toilet pre-parations, essential oils, cosmetics and denti-

CARPEX, 751,830, ZEOZON, 751,872, by P. Beiersdorf & Co., A.G., Hamburg, Germany. CHECKOL, 753,325, by Goya, Ltd., London, W.1.

For medicated ointments (5)

HYDROTOX, 744,455, ZOTOX, 744,457, by Zotox Pharmacal Co., Inc., Stamford, U.S.A. For pharmaceutical preparations and substances for human and veterinary use, sanitary preparations, medical and surgical plasters, and band-

ZEOZON, 751,873, by P. Beiersdorf & Co., A.G., Hamburg, Germany, INSIDON, 754,760, by J. R. Geigy, S.A., Basle, Switzerland.

For dietetic foods (5)
BISKS-MINUS, 751,908, by Andomia Products,
Ltd., Bradford, Yorks.

For nutritive preparations containing penicillin

for addition to foodstuffs for animals (5)
AFSILLIN, 753,645, by E. R. Squibb & Sons, Ltd., London, W.1.

From the "Trade Marks Journal," August 15

For all goods (1) SWARDEX, 734,129, by Sofnol, Ltd., London, S.E.10.

For chemical preparations for sealing floor sur-

TENSILON, 752,448, by H. Russell (Soaps & Disinfectants), Ltd., Liverpool.

For chemical substances for dispersing soot from open fires, boilers, chimneys and the like (1) ZIP, 752,510, by Kay Bros., Ltd., Stockport,

For binding material for foundries

Device of word COROVIT, 753,204, by Oel und Chemie-werk, A.G., Brugg, Switzerland. For chelating agents being chemical preparations used in manufacture; water softening preparations; detergents for use in industrial and manufacturing processes; and chemical compounds of minerals for application to the soil (1)

DETAROL, 753,538, by F. W. Berk & Co., Ltd., London, W.1.

For synthetic resins; and chemical preparations in liquid form for addition to synthetic resin to cause quick setting and hardening (1)

APCOPAK, 754,367, by Automobile Plastics Co., Ltd., Barnet, Herts.

For chemical products used in industry, science and photography; chemical products used in agriculture and horticulture: and manures and chemical substances for preserving foodstuffs (1)

NICOCETIL, 754,398, by Leda Chemicals, Ltd., London, N.18.

For all goods (3)

Device with words SERVICE MASTER, 748,084, by Wade, Wenger & Associates, Inc., Chicago, U.S.A. DYMEX, 753,453, by Thomas Hedley & Co., Ltd., Newcastle-on-Tyne. SWAN LAKE, 753,965, by E. Griffiths Hughes, Ltd., Salford, Manchester.

For non-medicated toilet preparations in liquid

form for application to the skin (3)
ANGEL TOUCH, B751,213, by Chesebrough-Pond's, Ltd., Greenford, Middlesex.

For non-medicated toilet preparations, perfumes,

preparations for the hair, and soaps (3)
PALETTE, 751,555, by Hans Schwarzkopf,
K.G., Hamburg-Altona, Germany.

For preparations for bronzing the skin (being cosmetic preparations) (3)

Device of words AERO TAN, 753,963, by La Publicité Scientifique S.A., Geneva, Switzer-

For soaps, perfumes, essential oils, cosmetic preparations (not being toilet preparations), hair

lotions and dentifrices (3)
NICOCETIL, 745,400, by Leda Chemicals,
Ltd., London, N.18.

For pharmaceutical preparations in tablet form containing digitalis, phenobarbitone and amino-phyllin and being for use in the treatment of cardiac asthma (5)

CARDOBARB, 752,985, by Agprolin, Ltd., Oldham, Lancs.

For all goods (5)

BIOSERPIN, 752,021, by Biorex Laboratories, Ltd., London, E.C.1. LENTICILLIN, 753,166, by May & Baker, Ltd., Dagenham, Essex.

For pharmaceutical preparations and substances

VELOTEX, 753,814, by Vepal Laboratories, Ltd., Hoddesdon, Herts.

For photographic apparatus, etc. (9)
DOKUMATOR, 751,090, by Veb Carl Zeiss
Jena, Jena, Germany. CUSHYMOUNT,
748,049, by Metalastik, Ltd., Leicester, SIDLEEN, 753,993, by Associated Brass Founders
Birmingham, Ltd., London, N.W.10.

For artificial limbs (10)

ELECTRIMB, 742,015, by Harold Strong and Paul Eisler, London, W.1. by Harold Vezey

From the "Trade Marks Journal," August 22 For chemical products containing magnesium carbonate and magnesium oxide for purifying sugar solutions (1)

Device with the wording MAGNETRIT, 748,641, by Magnetrit, A.G., Zurich, Switzerland.

For chemical products used in industry (1) CIRRASOL, 751,669, by Imperial Chemical

Industries, Ltd., London, S.W.1. For adhesives for use in industry (1)

BOSTIKURE, 753,951, by B.B. Chemical Co., Ltd., Leicester.

For chemical compounds for use as admixtures in the preparation of concrete and like substances (1)

TRETOL AEROMIX, 752,731, by Tretol, Ltd., London, N.W.9.

For emulsifying, dispersing and thickening agents, all being chemical products used in manufacture; binding agents for lacquers; and adhesives for use in industry (1)

COLLACRAL, 753,219. by Badische Anilin- & Soda Fabrik, A.G., Ludwigshaven-on-Rhine, Germany.

For non-medicated toilet preparations (3)

Device of a key and the words SECRET KEY, 746,967, by Max Factor & Co., Los Angeles, U.S.A. GLAMPOO, 755,117, by Coty (England), Ltd., London, W.I., SOLPEL, SPRINGOLD, 753,251–52, by Boots Pure Drug Co., Ltd., Nottingham.

For dry-cleaning preparations (3)

A-PLEX, 751,166, by Rohm & Hass G.m.b.H. Darmstadt, Germany.

For non-saponaceous detergents in powder form (not for use in industrial or manufacturing processes) (3)

FLAME, 753,893, by Thomas Hedley & Co., Ltd., Newcastle-on-Tyne.

For preparations and substances for laundry use

FELISOL, 754,127, by Ciba, Ltd., Basle, Switzerland

For preparations for cleaning metals and lithographic plates; and non-medicated preparations for cleaning the skin (3)

GESTELITH, 754,016, by Gestetner, Ltd.,

London, N.17.

For pharmaceutical preparations for use in the treatment of hamorrhoids and similar ailments (5)

HEMATRIX, 745,512, by S. Maw Son and Sons, Ltd., Barnet, Herts.

For pharmaceutical preparations and substances containing acetoxy pregnenolone for human and veterinary u:e (5)

ACETOXANON, 748,297, by Organon Laboratories, Ltd., London, W.C.2.

For glassware, domestic utensils and containers (not of precious metal), insulated containers and

parts and fittings (21)
Device, 752,977, by Thermos (1925), Ltd.,
London, E.10.

For pharmaceutical preparations and substances

NIRVEGIL, 750,256, by Carlo Erba Societa Per Azioni, Milan, Italy, VERILX, 753,815, by Vepal Laboratories, Ltd., Hoddesdon, Hetts. CONSPERCIN, 753,837, by Boots Pure Drug Co., Ltd., Nottingham, SILBE-PLEX, SILBEVIT, 754,485-86, by Silten, Ltd., Harfield Herts. Hatfield, Herts.

#### CONFERENCE TIMETABLE

THE following is the programme of events arranged for the British Pharmaceutical Conference meeting in Dublin, September 3-7. Times of morning events are given in light, afternoon events in heavy types:-

#### MONDAY

10.15: At Gresham Hotel. Morning coffee.

11.00: At Ambassador Theatre. Opening session and address by Conference chairman.

1.00: Luncheon.

2.30: At University College, Earlsfort Terrace. Science session.
8.00 for 8.30: At Gresham Hotel.

State reception, followed by a by dance at Aberdeen

#### TUESDAY

9.30: At University College. Science session.

> At University College, Professional session. Ladies' excursions.

1.00: Luncheon

2.30: At University College. Science session.

Ladies' excursions.

7.00 for 7.30: At University College. Conference banquet.

#### WEDNESDAY

9.30: At University College, Science session.

11.30: Conference excursion to Bray and Wicklow.

9.00: At Gresham Hotel. National Association of Women Pharmacists, informal meeting.

#### THURSDAY

9.30: At University College. Symposium session.

Fashion show for ladies. Visit to Guinness brewery.

1.00: Luncheon.
Afternoon: At Dublin Zoological Gardens, Phoenix Park, Garden party. Sports.

Evening: Visit to Abbey Theatre.
At Royal Dublin golf club. Informal party.

#### **FRIDAY**

9.30: At University College. Science session.

At University College, Professional session. Ladies' excursions.

1.00: Luncheon. 2.30: At University College, Science session.

4.30: Closing session.

8.00 for 8.30: At Mansion House. Conference ball.

### PRINT AND PUBLICITY

#### Advertising Campaigns

BRITISH COD LIVER OILS (HULL & GRIMSBY), LTD., St. Andrew's Dock, Hull: Seven Seas cod-liver oil. In national daily and Sunday Press, national weeklies and women's magazines. Commencing October.

Cussons, Sons & Co., Ltd., Kersal Vale, Man-chester, 7: Christmas gift sets. In women's mass circulation magazines.

WILLIAM FREEMAN & Co., LTD., Suba-Seal Works, Barnsley, Yorks: Suba-Seal hot-water bottles. In *Daily Express*, October 12, November 16; Daily Mirror, October 19, November 23; Daily Mail, October 26, November 30; News Chronicle, November 2, December 7; Daily Herald, November 9, December 14.

HANOVIA LAMPS (DIVISION OF ENGELHARD IN-DUSTRIES, LTD.), Bush Road, Slough, Bucks: Hanovia prescription lamps. In Sunday newspapers and national magazines, October-December. Radisil heater. In *Woman*, national daily and Sunday newspapers, and national maga-

RIMMEL, LTD., 146 New Bond Street, London, W.1: Rimmel mascara, French eyebrow pencil, and eye shadow. In Modern Woman, September 15; She, September 29.

ROBERTS WINDSOR SOAP Co., LTD., The Acre, Windsor, Berks: Roberts Original Brown Windsor soap. In Punch, The Tailer, Country Life, Illustrated London News.

RONSON PRODUCTS, LTD., RONSON House, Strand, London, W.C.2: Lady Ronson shaver. In Vogue and Harper's Bazaar during October, November, December.

#### COMMERCIAL TELEVISION

PROGRAMME details are given to enable chemists to put in linking-up displays if they wish. Notice given is as far in advance of the programme date as can be guaranteed by the broadcasting companies,

#### LONDON STATION

SUNDAY, September 9: Anadin.

TUESDAY, September 11: Elastoplast; Knight's Castile soap.

WEDNESDAY, September 12: Gibbs' S.R. toothpaste (between 10 and 10.30 p.m.); Zal (between 10 and 10.35 p.m.).

THURSDAY, September 13: Loxene n shampoo (between 7 and 7.25 p.m.). Loxene medicated

FRIDAY, September 14: Anadin; Zal (between 10 and 10.35 p.m.); Silvikrin shampoo (between 10.5 and 10.35 p.m.).

#### SATURDAY, September 15: Silvikrin shampoo,

#### BIRMINGHAM STATION

SUNDAY, September 9: Knight's Castile soar (between 10 and 10.30 p.m.).

TUESDAY, September 11: Knight's Castile soar (between 7 and 8 p.m.).

Wednesday, September 12: Astral cream (be tween 8 and 10.30 p.m.); Zal (between 10 and 10.35 p.m.).

THURSDAY, September 13: Gibbs' S.R. tooth paste (between 8 and 10 p.m.); Astral cream (between 8 and 10.30 p.m.); Zal (between 10 and 10.35 p.m.).

Saturday, September 15: Silvikrin shampoo Cussons' cold cream soap (at 10,45 p.m.),

#### MANCHESTER STATION

SUNDAY, September 9: Zoflora; Knight's Castile soap (between 7.30 and 8 p.m.).

WEDNESDAY, September 12: Knight's Castile

THURSDAY, September 13: Zoflora; Knight's Castile soap (between 9.35 and 10 p.m.).

SATURDAY, September 15: Cussons' cold crean soap (at 10.45 p.m.); Fennings' cooling pow ders, mother's book, rheumatic tablets (between 2.45 and 3.30 p.m., and 10.45 and 11 p.m.). DAILY, September 10-15: Silvikrin shampoo. UNTIL September 29: Vodex lozenges.

Price Lists

MEDO-CHEMICALS, LTD., 144 Fortess Road, London, N.W.5: Medical specialities. Pp. 8.

#### Catalogues

PIFCO, LTD., Pifco House, Watling Street, Manchester, 4: Pifco electrical specialities, 1956-57, Pp. 48.

#### **COMING EVENTS**

Items for inclusion under this heading should be sent in time to reach the Editor not later than first post on Wednesday of the week of insertion

#### Monday, September 3

SCOTTISH BRANCH, INSTITUTE OF PACKAGING More's hotel, Glasgow, at 7 p.m. Film, "The Alloa Story," by Alloa Glass Works Co., Ltd

#### Wednesday, September 5

SOUTH LONDON AND SURREY PHARMACIST'S GOLF ING SOCIETY, Malden golf club, Traps Lane New Malden, at 1.30 p.m. Stableford competition for the president's prize.

### C. & D. WEEKLY LIST OF PRICES

A-Advanced; R-Reduced; I.R.P.-In

Sunsilk shampoo	sachet*				9	R
ROCHE PRODUC		(fror	n So	epteml	ber	1)
Benerva compoun						_
	25			1	6	R
	100			3	0	R
	500			10		R
	1,000			18		R
Becosym tablets	25			3		R
	100			6	9	R
	500			29	3	R
Becosym forte tab				9	6	R
	100			27	0	R
	500			120	0	R
VITAMINS, LTD	(from S	eptem	ber	1)		
		D				
Befortiss tablets	25	10	6	1	4	R
	100	24		3	0	R
			ch			
	500		0	10	6	R
	1,000	12	6	18	9	R
	-		oz.			
Becovite tablets	25	20	6	2	7	R
	100	54	0	6	9	R
		Ea	ch			
	500	19	6	29	3	R
		37	-	56	3	R

COW	& GATE, LID.	Doz.	
Baby	powder*	14 1	1 11

LIST OF TRICES		
nclusive Retail Price; •= Tax 30 per cent	•	
THE CROOKES LABORATORIES,	LTI	ο.
Crookes halibut oil capsules		
30	2	6
60	4	
120	8	6
IMPERIAL CHEMICAL (PHAR)	MACE	TUE
CALS), LTD,		
Furella 4-oz, envelope	7	3
1-lb, tin	23	
7-lb. tin	130	0
J. G. INGRAM & SON, LTD.		
Restwell junior hot-water		
bottle	7	6
LEDERLE LABORATORIES	DIVE	SIO
CYANAMID PRODUCTS, LTD.		
Each		
Revicaps* 100 16 0	25	
Stresscaps 30 14 0	21	0
	_ \	
MENIEV & IAMES LTD (correction	n)	

Derech				
	Y & JAMES	, LTD.	(corr	ection
Cynomel	tablets* 5 microgm.	1,000	35	0
	DAVIS & C		<b>)</b> .	
Cirotyl*	4	fl. oz.		

	J microgin, 1,000	
PARKE.	DAVIS & CO., LTD.	
Cirotyl*	4 fl. oz.	
	80 fl. oz.	

4 2½ 57 7½

117 6

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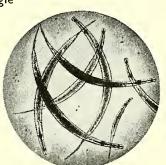
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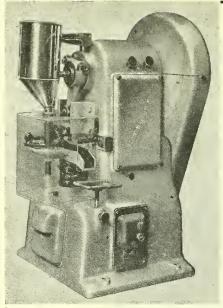


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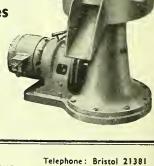


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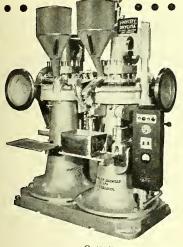


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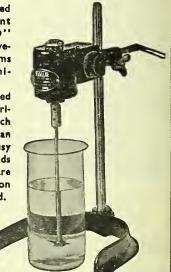
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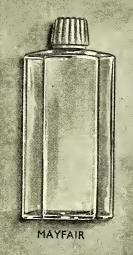
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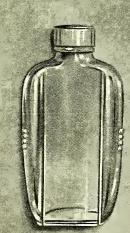




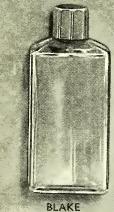
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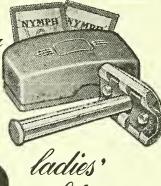
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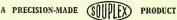


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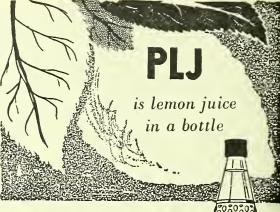


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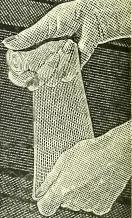
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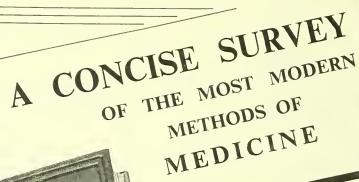
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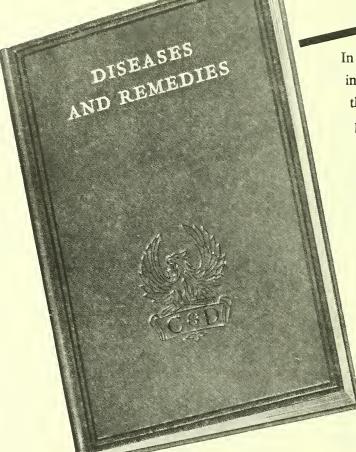
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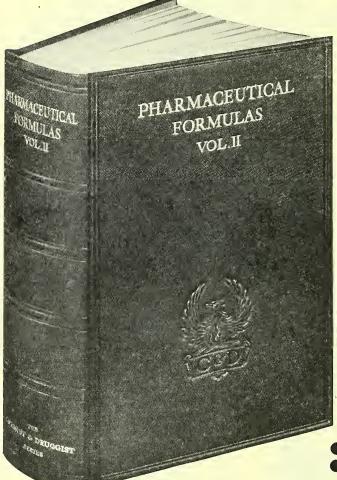




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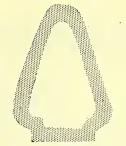


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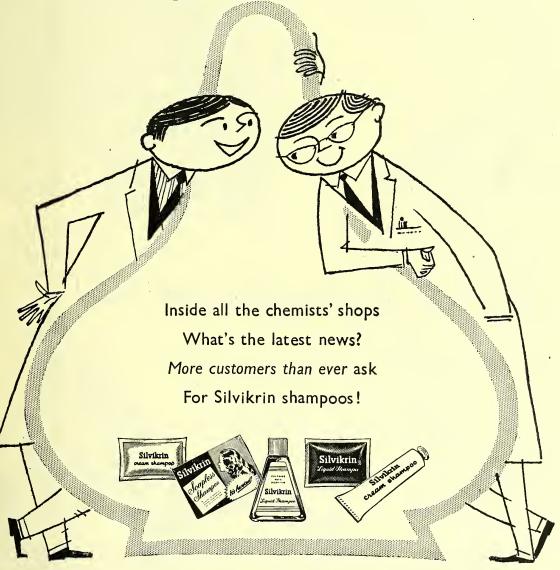
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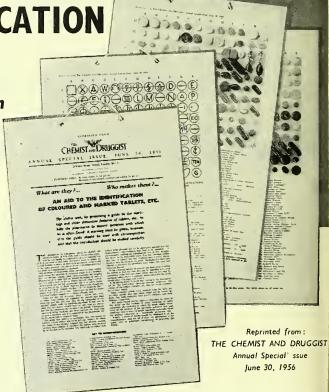
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LAMBETH HOSPITAL,
BROOK DRIVE, S.E.11
Assistant-in-Dispensing
Applications are invited for the post of Assistant-in-Dispensing, Salary (plus London Weighting) in accordance with Whitley Council scale. Applications, stating age, experience, qualifications and names of two referees to the C 275

# LAMBETH HOSPITAL, BROOK DRIVE, S.E.11

(Acute General Hospital, 510 beds)
Senior Pharmacist
Applications are invited for the post of Senior Pharmacist in a department which is being enlarged with consequent increase in the number of staff. The possibility of making this a resident appointment would be considered, Salary (plus London Weighting) in accordance with Whitley Council Scale, Applications, stating age, experience, qualifications and names of two referees to the Secretary.

LEYTONSTONE (No. 18)

LEYTONSTONE (No. 10)

HOSPITAL GROUP

Assistant-in-Dispensing
required at Whipps Cross Hospital, London, E.11
Salary according to age and experience which
rises to a maximum of £465 per annum plus
London Weighting, Applicants should possess
the Certificate of the Society of Apothecaries
or equivalent in respect of which an additional £20 per annum is payable, Application
forms from the Hospital Secretary to be returned by September 11, 1956, C 5601

#### MAYDAY HOSPITAL (Category IV)

Category IV)

Pharmacist

Salary in accordance with Whitley Scales, Modern Department, Good working conditions. Wide experience obtainable, Canteen on hospital premises, Applications giving age, qualifications and experience together with names of two referees to be sent within 7 days of appearance of this advertisement to George A. Paines, Group Secretary, Croydon Hospital Management Committee, General Hospital, London Road, Croydon.

C 5588

### NAPSBURY MENTAL HOSPITAL,

NAPSBURY MENTAL HUSFIELD, Nr. ST. ALBANS
Locum Tenens Dispensing Assistant required (Hall Certificate), commencing October 1, 1956. Salary £8 168, 6d. per week, New pharmacy in course of construction, Applications endorsed "Locum Dispensing Assistant" to Group Secretary, Napsbury Mental Hospital, C 5610

NATIONAL HEALTH SERVICE
JOINT PRICING COMMITTEE
FOR ENGLAND

Applications are invited for the post of Deputy
Superintendent at the Manchester Pricing
Bureau. The commencing salary is £673 per
annum rising by five annual increments of £27
and one increment of £29 to £837 per annum.
The successful applicant will be required to
assist the Superintendent in resolving problems
rising in the pricing of National Health Service prescriptions and in controlling a large
female staff. A knowledge of Pharmacy is
desirable and Administrative experience would
be an advantage.

Applications stating age, qualifications and ex-

Applications stating age, qualifications and experience together with the names of three referees should be sent to the Clerk, Joint Pricing Committee for England, 38 Northumberland Street, Newcastle-upon-Tyne, 1, before September 15, 1956.

### NAPSBURY (MENTAL) HOSPITAL MANAGEMENT COMMITTEE,

COMMITTEE,

Nr. ST. ALBANS, HERTS
Locum Tenens Pharmacist
required commencing October 1, 1956, at
£16 16s. per week. New pharmacy in course
of construction. Details to the Group Secretary
with names of two referees in an envelope to
be endorsed "Locum Pharmacist." C 5611

# NAPSBURY (MENTAL) HOSPITAL MANAGEMENT COMMITTEE,

COMMITTEE,

Nr. ST. ALBANS, HERTS

Senior Pharmacist

Applications are invited for the post of Senior

Pharmacist £575 x £30 (5)—£725 x £25 (2)—
£775. New pharmacy in course of construction,

Applications to the Group Secretary, with
names of two referees, endorsed "Senior

Pharmacist." C 5612

# SOUTH MANCHESTER H.M.C.,

SOUTH MANCHESTER H.M.C.,
WYTHENSHAWE HOSPITAL,
MANCHESTER, 23
Pharmacist
Applications are invited for the post of pharmacist at Wythenshawe Hospital, Whitley
Council salary scale and conditions of service.
Applications stating age, qualifications and experience, with the names of two referees, to the
Administrative Officer within 14 days of the
appearance of this advertisement, C 5603

## ST. ALFEGE'S HOSPITAL, GREENWICH, S.E.10

GREENWICH, S.E.10
(Category IV)
(a) Deputy Chief Pharmacist
(b) Senior Pharmacist
Applications are invited for the posts of (a)
Deputy Chief Pharmacist, salary £655-£890 p.a.
(b) Senior Pharmacist, salary £605-£805 p.a.,
in a well-equipped department at the above hospital, which may be inspected by arrangement with the Chief Pharmacist. Whittey
Council conditions, Applications to Acting
Secretary, G. & D./H.M.C., at above hospital,
C 5437

## ST. ALFEGE'S HOSPITAL,

ST. ALFEGE'S HUSELTAGE,
GREENWICH, S.E.10
Locum Pharmaeist
(long- and short-term) required, Salary 16-17
guineas weekly, according to experience, Apply
Chief Pharmaeist at hospital (Tel.: Gre, 2655).
C 5436

## ST. GEORGE'S HOSPITAL

HYDE PARK CORNER, S.W.1
Senior Pharmacist
male, to take charge of galenical laboratory
and do one evening dispensing duty a week.
Salary in accordance with Whitley Council
scale. Apply in writing to Chief Pharmacist,

# ST. GEORGE'S HOSPITAL, HYDE PARK CORNER, LONDON, S.W.1

Pharmacist

Pharmacist

Pharmacist

required for this teaching hospital, Salary in accordance with Whitley Council scale. Applications to Chief Pharmacist, C 5607

ST. PETER'S HOSPITAL,
CHERTSEY, SURREY
Pharmacist
required. Salary £500-£700 p.a. according to
experience. Whitley Council conditions, Accommodation available for single woman at
£135 p.a. Applications stating age and experience with names of two referees to Hospital
Secretary,

C 5614

STOCKPORT AND BUXTON
HOSPITAL MANAGEMENT
COMMITTEE,
STOCKPORT INFIRMARY
Deputy Chief Pharmacist
Applications are invited from suitably qualified candidates for the above post which will appeal especially to pharmacists interested in the preparation of sterile products.
Salary scale £625 to £850 plus £25 per annum if holding a higher qualification allowance, Applications, with full particulars, together with copies of two testimonials, or names of referees, to the Group Secretary, 59B Shaw Heath, Stockport.

# TOOTING BEC HOSPITAL, TOOTING BEC ROAD,

LONDON, S.W.17

Pharmacist
required at the above hospital, Salary and conditions of service in accordance with those laid down by the Pharmaceutical Council, plus London Weighting, Apply giving details to Superintendent of hospital

C 5563

# WHIPPS CROSS HOSPITAL, LONDON, E.11

Applications are invited for the above post. Salary according to age and experience which rises to a maximum of £725 per annum plus London Weighting. Application forms from the Hospital Secretary to be returned by September 11, 1956.

#### SITUATIONS VACANT

12/- for 36 words (min.) then 4d. per word-Box 2/-

#### RETAIL (HOME)

A PROMINENT FIRM of retail chemists have several vacancies for experienced stock checkers, either sex. Five-day week, Salary and expenses basis. Kindly submit full details of age and experience, etc., to Box C 3980.

DONCASTER CO-OPERATIVE CHEMISTS, LTD., require the services of pharmacist (male or female) as branch manager, Payment on "sales" scale, plus bonus, Salary at smallest branch over £900 per year. Rota payment extra, All shops in prosperous industrial areas where sales increases are possible, 44-hour week. Applications, with usual particulars to the Superintendent Chemist, Doncaster Cooperative Chemists, Ltd., P.O. Box 20, Doncaster,

#### A MEDICAL REPRESENTATIVE

is required to act in the first instance as a Relief in Norfolk, Suffolk and Cambridgeshire and subsequently to be given a permanent territory. This is an quently to be given a permanent territory. This is an opportunity for a young, single man willing to work in different parts of the country to gain valuable experience under varying conditions. Training will be given, Experience is not essential but a medical or pharmaceutical background is desirable and applicants must be of above-average personality. A Company car will be provided and a valid driving licence is essential. Attractive salary, liberal expenses; pension and bonus schemes in operation. Apply, in confidence, giving full details to the Sales Manager, C. L. Bencard, Ltd., Minerva Road, Park Manager, C. L. Bencard, Ltd., Minerva Road, Park Royal, London, N.W.10.

#### **NIGERIA**

Resident representative required immediately, A pharmaceutical qualification is necessary and commercial experience and a knowledge of surgicals are assets. Candidates may be either married or single. Salary in accordance with experience. The post is an interesting one and gives scope for initiative and ambition. Written applications giving full details of age, marital status, qualifications, education and experience should be addressed to Personnel Manager, Allen & Hanburys, Ltd., London, E.2.

#### Situations Vacant—Continued

EDGWARE ROAD, W.2. Pharmacist of proved education which end in the provided ability required to manage attractive and modern shop with varied dispensing connection. There is an excellent opportunity of a substantial salary and bonus. Good supporting staff and modern equipped dispensary, etc. Permanency with superannuation benefits. Apply with full details stating when available for interview to Box C 3978.

NORTH LONDON. Dispensing Assistant required for pharmacy near the Angel, Edmonton. Permanent position, Hours 9 a.m.-6 p.m. Thursday 1 p.m. Dispensary recently refitted. Apply with full details of previous experience to Box C 5594.

TOTTENHAM, Pharmacist required with interest in photography to manage a good-class establishment in this area. Splendid opportunity for promotion with good supporting staff and development is assured. Flat accommodation can be provided if desired. Apply with full details stating when available for interview to Box C 3979.

VACANCY OCCURS for an experienced male assistant, must be accustomed to busy dispensing and general retail routine. No Sunday rota Good salary for right man. Tomlinson, Ph.C., 63 Oxford Road, Burnley.

WANTED. Pharmacist, male or female, as superintendent. Wages £16 per week. Good hours and conditions No Sunday work. Private house available rent free. Superannuation scheme, Full particulars on application to the Garndiffaith & Varteg Co-operative Society, Limited, Garndiffaith, Mon. C 3944

#### LOCUMS WANTED

QUALIFIED LOCUM required to take full charge of fully staffed pharmacies in the South London area for several weeks. Undeniable references essential, Please give all details to Managing Director, Arnold M. Gee, Ltd., 12 High Street, Colliers Wood, S.W.19. Telephone: Liberty 8262.

#### WHOLESALE

CONFIDENTIAL AND PERSONAL CLERK is required by the managing director of a substanual pharmaceutical house in the London area, Ample prospects, Applicants should possess a general knowledge of pharmaceutical office routine and kindly state age and experience to Box C 3981.

ESTABLISHED SURGICAL DRESSINGS manufacturers require representative to call on hospitals and wholesale chemists in London, Southern Counties and Midlands, Required to work from London headquarters and should reside that area, Car provided, Pension scheme, Some experience this field an advantage, Age 25/35, Apply in writing giving full details age and experience, Own staff aware, Strictest confidence observed, Box C 3962.

EXPORT MANAGER required by pharmaceutical manufacturers. Applicants must have experience in sales promotion of proprietaries and ethicals and have world-wide connections. Accommodation available if required, Full details including salary required to Box C 5608.

#### **PHARMACEUTICAL** CONSULTANTS

A fully qualified staff offer their services in industrial problems. Box C 3970.

H. E. DANIEL, LTD., St. Bernard Works, London, S.E.19, suppliers of raw materials to the following trades, require a representative to call upon mineral water and confectionery manufacturers, perfumery and soap manufacturers, manufacturing chemists and wholesale druggists, in London and Home Counties, Experience desired. Salary, commission, superannuation and car provided, Apply in confidence, with full details to the Managing Director. C 261

LEWIS WOOLF, LTD., manufacturers of "Griptight" nursery requisites require a salesman with a successful record in the chemists' sundries field for (a) North of England and Scotland; (b) London and the South. Age limit 50. Salary, expenses and commission. Apply by letter only. Lewis Woolf, Ltd., 144 Oakfield Road, Selly Oak, Birmingham, 29. C 5550

MEDICAL REPRESENTATIVES required by Loudon manufacturing chemists to call on doctors, dentists, hospitals and chemists, Experience of medical detailing an advantage but not essential if applicant has a good pharmaceutical background, Applications invited from pharmacists, 25 to 40 years of age, stating experience and salary required, Box C 264.

OPPORTUNITY OCCURS for young man with pharmaceutical background to act as representative for wholesale chemists in S.E. Lancs. Existing territory requires filling in and expanding, Salary £450 per annum, expenses, and commission on sales of drugs and galenicals. Give all relevant details in confidence to Box C 5560.

PRICING/INVOICE CLERK required by manufacturing pharmaceutical chemists. Modern offices. Five-day week, Canteen facilities, Five minutes Watford Metro, Station, Apply: C. J. Hewlett & Son, Ltd., King George's Avenue, Watford. Telephone: Gadebrook 44011

PRODUCTION CHEMIST, 25-35 years of age, required by rapidly expanding toilets and cosmetics firm as first assistant to the present works manager, Good salary with guaranteed yearly increase to the right person. Apply in strict confidence to Box C 276.

RAPIDLY EXPANDING firm of manufacturing chemists supplying bulk and packed preparations to the hairdressing trade require a really first-class representative with a live connection in the trade for several parts of the country, Must be car owner, Excellent prospects, Reply giving fullest details to Box C 3967.

REPRESENTATIVE REQUIRED for the Midlands, to call on chemists for an old-established manufacturing house marketing drugs, galenicals, packed pharmaceuticals and medical specialities. Should reside in the Midlands. This is an excellent opportunity for a young man with a pharmaceutical background, wishing to make a career as a representative, Experience is not necessary, but the successful applicant will be enthusiastic and conscientious, Car provided. Remuneration by salary and commission. Expenses paid. Apply stating age, details of career to date, salary required, etc., to Sales Manager, John Richardson & Co., Leicester, Ltd. C 5619 REPRESENTATIVE REQUIRED for the Mid-

REPRESENTATIVE. Progressive position vacant for man capable of demonstrating revolutionary method of bandaging to medical and nursing staff and selling to hospital buyers. Must have energy, ambition and personality and be fully mobile for travelling throughout the North-west and Yorks, Box No. 740, Smiths' Advertising Agency, Ltd., 100 Fleet Street, E.C.4,

### SANDOZ PRODUCTS LIMITED Medical Representatives

Due to business expansion Sandoz Products Limited invite applications from young men for the appointment of Medical Representative in a number of areas in Scotland, England and Wales, Applicants should be Pharmacists, not exceeding 32 years of age. Attractive salary, Superannuation scheme in operation, Thorough training will be given. Please send full details of age, education, qualifications and experience with photograph (which will be returned) to Staff Manager, Sandoz Products Limited, 134 Wigmore Street, London, W.1. C 5582 Due to business expansion Sandoz Products

SCOTT & BOWNE, LTD., are expanding their sales force and have a vacancy for a top-grade representative to cover Wales, Shrop-shire, Hereford and part Worcestershire, Applicants should be between 25 and 40 with experience of the chemist trade preferably in Wales, They must be prepared to live in South Wales, Remuneration is by salary and commission with all expenses paid, Company car provided, Pension Scheme, This is a fine opportunity for a man with initiative and ability seeking a permanent position. Write with full details of age and experience to the Sales Director, Scott & Bowne, Ltd., 50 Upper Brook Street, London, W.1.

#### WHOLESALE (OVERSEAS)

RHODESIA. A leading pharmaceutical house invites applications from suitably qualified persons to fill an important vacancy in the sales force of their Branch Organisation in Salisbury. This position will appeal to young single pharmacists, aged 25-32, with sound retail or hospital background. Representative experience will carry some measure of preference. The pital background, Representative experience will carry some measure of preference. The position offers scope for advancement to senior status within a growing organisation. Full training will be given in the U.K. Apply initially in writing to Box C 5554.

### LITTO Preparations

to whom all orders and enquiries should be addressed

are now being manufactured by VINES BIOCRIN LTD.

222-224 HARROW ROAD, LONDON, W.2

PATCHOID, CREMARD SEBACOID, TINTAS,

SPECIAL & STANDARD

### -IMPORTANT-

Office Box numbers are intended exclusively for specific answers to particular advertisements. Price Lists, Trade Circulars, Samples and Printed Matter cannot be forwarded.

# AGENTS WANTED 17/6 for 36 words (min.) then 4d. per word. Box 2/-

COMMISSION AGENT required to sell perfume compounds to hairdressers and chemists, Favourable terms offered, Write Box C 5566.
M.A.A.—The Badge of a good manufacturers' agent, Manufacturers requiring reputable agents are invited to communicate with the Sceretary, The Manufacturers' Agents' Association of Great Britain & Ireland (Inc.), Bream's Buildings, E.C.4. Membership available to established agents only, Particulars supplied.

#### SITUATIONS WANTED 3/- for 18 words (min.) then 2d. per word. Box 1/-

#### WHOLESALE

market, sutures and pharmaceuticals, seeks employment with pharmaceutical or similar concern preferably India or Far East, Box C 3969. PHARMACIST, thorough knowledge of Indian

PHARMACIST with wide and successful managerial experience requires position in substan-tial business London and Home Counties where successful buying and selling record, hard work and initiative will be duly rewarded. Box and in C 5618.

YOUNG SENIOR EXECUTIVE seeks responsible position as general manager or as right-hand man to managing director of group of drug stores, Thorough knowledge of chemists' sundries and allied lines, Buying, selling, ad-ministration and staff control, Box C 3975.

#### BUSINESS OPPORTUNITIES

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EXCEPTIONAL OPPORTUNITY for discerning company or individual with necessary capital to invest in development of unique noncompetitive product with twelve years' proof of outstanding potentialities. Edible, non-seasonable, untaxed, superbly packed, large profit, numerous outlets. Present utmover, without distribution facilities, is small and largely derived from regular sales to big multiple company, Personally detailed to principals only, Box C 3974.

#### NEED MORE OUTPUT?

FOOD MANUFACTURERS in Northern Ireland have capacity for packing and/or making packeted or bottled goods, on contract basis. Modern post-war factory. High reputation for quality. Replies treated in confidence. Box C 3946.

PENSIONS FOR PHARMACISTS. It is important that you should have good advice on this subject which is more complicated than it appears. My long experience will secure best arrangement. Consult F. Varney, B.Sc., 14/16 Cockspur St., S.W.1.

REPUTABLE INDIAN MANUFACTURER of surgical dressings in Calcutta desires to extend its business to the manufacture of sutures or adhesive plasters, Contact representative at present in London, Box C 3968,

RUBBER (also Latex rubber), silicone rubber and other synthetic rubber mouldings and translucent tubing made to customers' specifications. Esco (Rubber), Ltd., 34/36 Somerford Grove, London, N.16.

#### WANTED

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ALL KINDS OF BOTTLES, JARS, SCREW CAPS, cartons, packaging materials and manufacturers' stocks of all kinds bought at fair prices for spot cash, We are buyers of merchandise of EVERY DESCRIPTION. Clearance Stocks. Discontinued lines, Surplus and Redundant Stocks, Should you have anything for disposal, please send us samples and particulars. Reliance Trading Co., 13 New College Parade, Finchley Road, N.W.3. C 153 WE WILL PURCHASE for cash a complete stock, a redundant line, including finished or partly finished goods, packing raw materials, etc. No quantity too large, Our representative will call anywhere. Write or telephone:—Lawrence Edwards & Co., Ltd., 6/7 Wellington Close, Ledbury Road, London, W.11. Tel.: Bayswater 4020 and 7692. C 140 ALL KINDS OF BOTTLES, JARS, SCREW CAPS, cartons, packaging materials and

#### MISCELLANEOUS SALES

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100 BAYS of brand new adjustable steel shelving, 72 in. high by deep, stove-enamelled knocked down—6 shelf bay—£3 15s. Sample delivered free. N. C. Brown, Ltd., Eagle Steelworks, Heywood, Lanes. C. 5484 COMPLETE FITTINGS of large chemists' shop, £100. Space required immediately. Seen Liverpool, Box C 5600.

#### TRIPLE ROLL MILL

Granite Rolls 16 in. x 7 in. Pyrex Glass Stills 10 and 30 gall, with Condensers. "Hurrell" stainless Stalless steel Homogeniser. Stainless steel Homogeniser. Stainless steel 30-gall, jacketed Pan, Silex lined Ball Mill 2 ft. x 2 ft. Jacketed stainless steel Mixer tilting pan 39\frac{1}{4} in, x 39 in, x 27 in, deep with double Z Blades and 20 h.p. Motor, Porcelain twin Rolls 9 in. x 12 in, Rubber lined 30 in. Hydro Extractor, Sharples Separator 250 galls, per hour, Stainless steel Centrifugal 1½ in. Pump. "Centrac" tube filling and closing Machine, Roberts and closing Machine. Roberts jacketed Mono-rail Filling Machines. "Finex" 3-speed 40-quart Bowl Mixers, Jacketed sterilisers 20 in, x 3 ft., jacketed 30 gall, enamelled-lined Still.

#### DARTNALL, 248 Humberstone Road, Plaistow, London, E.13

C 3964

COMPLETE STOCK for disposal of business consaged in assembling and packing First Aid Equipment. Stock comprises a number of com-pleted kits and quantities of metal and card-board boxes, scissors, bottles, bandage appli-cators, dressings and sundry chemicals. Box C 3977.

TAX-FREE HAIR LACQUER, Bulk lacquer is now tax-free, "Hair-Do" lanolised lacquer, finest quality obtainable, exquisitely perfumed, 35/- gall., c.w.o. or c.o.d, "Hair-Do" Co., 11A Litherland Park, Liverpool, 21. C 3963 THE SMALLEST ROOM needs Carnos fine balance sulphate toilet rolls, 66/- gross. Free delivered. Sea journey extra. Send 1/- for sample rolls. Stock lists free on request, L. Frankenberg, Ltd., Manufacturers' Wholesale Distributors, 37 Houndsditch, London, E.C.3.

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Box 2/-

MEDIUM SIZED D. & P. WORKS established 16 years, with enthusiastic management and staff and with the very larest equipment, would welcome your D. & P. enquiries. Postal service is per return but quality is not sacrificed, P.D.A. prices and discounts, We are members of P.D.A., W.P.F.A., and I.B.P. Mr. L. H. Morgan, Gwent Photographie Service, Snatchwood Works, Pontypool, Mon. Tel.: Talywain 355.

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4,000 cartons, white,  $4\frac{1}{6} \times 4\frac{1}{6} \times 5\frac{1}{4}$ . 7,500 cartons, white,  $4\frac{1}{90} \times 3\frac{1}{3} \times 5\frac{1}{90}$ . 11.500 cartons, white,  $1\frac{1}{4} \times 1\frac{1}{4} \times 4\frac{1}{2}$ . 4,000 cartons, white,  $1\frac{1}{4} \times 1\frac{1}{4} \times 2\frac{1}{4}$ . 4,500 cartons, brown,  $6\frac{1}{6} \times 2\frac{1}{4} \times 2\frac{1}{2}$ . 4,500 cartons, vellow,  $1\frac{1}{6} \times 1\frac{1}{4} \times 4 \times 2\frac{1}{4}$ . 2,000 cartons corrugated  $4\frac{1}{4} \times 4 \times 2\frac{1}{4}$ . 1,500 black rigid boxes,  $3\frac{1}{4} \times 2\frac{1}{4} \times 2\frac{1}{4}$ . 1,500 black rigid boxes,  $3\frac{1}{4} \times 2\frac{1}{4} \times 2\frac{1}{4}$ . 1,303 black rigid boxes,  $3\frac{1}{4} \times 2\frac{1}{4} \times 2\frac{1}{4} \times 2\frac{1}{4}$ . 1,31 gr. grey tims, similar. 3 x  $\frac{3}{4}$ .
31 gr. grey tins, similar.
4,300 lever lid tins,  $2\frac{1}{10}$  dia. x  $3\frac{1}{2}$ .
4,100 lever lid tins,  $2\frac{1}{10}$  dia. x  $4\frac{1}{2}$ .
33,000 plain white bags,  $1\frac{5}{2}$  x  $2\frac{5}{16}$ .
50,000 bags, cellophane,  $1\frac{1}{2}$  x  $2\frac{5}{16}$ .
240,000 cotton wool rolls  $\frac{1}{6}$  x 2.
210,000 waxed paper discs  $1\frac{5}{10}$  dia.
750 pulp containers  $5\frac{1}{6}$  dia. x  $5\frac{1}{2}$ .
90 gr. 10 c.c. neutral glass vials. 100 gr. black plastic screw lid boxes 1 25 19,000 corrugated pieces 5 x 7. 630 gr. aluminium caps "No. 7 Tablet."

Low prices to clear.

Menley & James, Ltd., 120 Coldharbour Lane, London, S.E.5.

C 5621

57 23

ABOUT 900 GROSS of 4-oz, limes clear glass bottles with metal topped corks, for sale at low price, by The Birmingham Chemical Co., Ltd., Lichfield,





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Full pages in full colour will arrest attention to Cussons gift sets in mass circulation women's magazines this Autumn. Be prepared with adequate stocks to meet a bigger demand than ever. Remember, no charge is made on the attractive Christmassy packs, and all the contents are standard lines saleable separately at any time of the year.

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